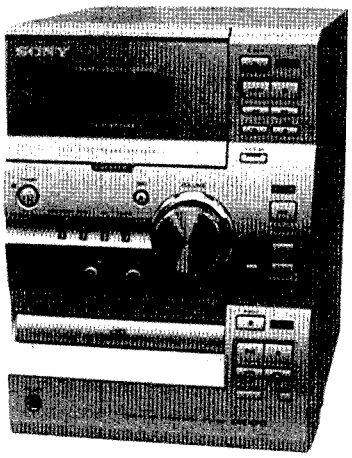
# HCD-CP11

# SERVICE MANUAL

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*
*Australian Model*

**Note**

**CD block, tape deck block and tuner pack are supplied with the assembled block.**



HCD-CP11 is the Amplifier, CD player, Tape Deck and Tuner section in CMT-CP11/CP11K.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

| | | |
|---|---|---|
| CD Section | Model Name Using Similar Mechanism | NEW |
| | CD Mechanism Type | CDM55-K5BD41 |
| Tape deck Section | Model Name Using Similar Mechanism | NEW |
| | Tape Transport Mechanism Type | TCB-020 |

## SPECIFICATIONS

**Amplifier section**

**For the U.S. model**

### AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 70 - 20,000 Hz; rated 18 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to rated output.

North American model:
Continuous RMS power output (reference):
35 + 35 W
(6 ohms at 1 kHz, 10% THD)
Total harmonic distortion less than 0.07% (6 ohms at 1 kHz, 18 W)

European model:
DIN power output (rated): 30 + 30 W
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference):
35 + 35 W
(6 ohms at 1 kHz, 10% THD)
Music power output (reference):
85 + 85 W

Other models:
The following measured at 230 V AC, 60 Hz
DIN power output (rated): 30 + 30 W
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference):
35 + 35 W
(6 ohms at 1 kHz, 10% THD)
The following measured at 220 V AC, 60 Hz
DIN power output (rated): 24 + 24 W
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference):
27 + 27 W
(6 ohms at 1 kHz, 10% THD)

Inputs
MD IN (phono jacks): Sensitivity 500 mV, impedance 47 kilohms
VIDEO IN (phono jacks): Sensitivity 250 mV, impedance 47 kilohms

Outputs
LINE OUT (phono jacks): Sensitivity 250 mV, impedance 1 kilohm
OPTICAL DIGITAL OUT (CD): Optical
PHONES (stereo phone jack): Accepts headphones with an impedance of 8 ohms or more
SPEAKER: Active speaker system, 6 ohms

— Continued on next page —

## MICRO Hi-Fi COMPONENT SYSTEM

SONY®

## CD player section

| | |
|---|---|
| System | Compact disc and digital audio system |
| Laser | Semiconductor laser ($\lambda$ = 780 nm)<br>Emission duration: continuous |
| Laser output | MAX 44.6 $\mu$W*<br>* This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture. |
| Wavelength | 780 - 790 nm |
| Frequency response | 2 Hz - 20 kHz (±0.5 dB) |

## Tape player section

| | |
|---|---|
| Recording system | 4-track 2-channel stereo |
| Frequency response (DOLBY NR OFF) | 50 - 13,000 Hz (±3 dB), using a Sony TYPE I cassette<br>50 - 14,000 Hz (±3 dB), using a Sony TYPE II cassette |

## Tuner section

FM stereo, FM/AM superheterodyne tuner

### FM tuner section

| | |
|---|---|
| Tuning range | |
| North American model: | 87.5 - 108.0 MHz<br>(100-kHz step) |
| Other models: | 87.5 - 108.0 MHz<br>(50-kHz step) |
| Antenna | FM wire antenna |
| Antenna terminals | 75 ohm unbalanced |
| Intermediate frequency | 10.7 MHz |

### AM tuner section

| | |
|---|---|
| Tuning range | |
| North American model: | 530 - 1,710 kHz<br>(with the tuning interval set at 10 kHz)<br>531 - 1,710 kHz<br>(with the tuning interval set at 9 kHz) |
| European model: | 531 - 1,602 kHz<br>(with the tuning interval set at 9 kHz) |
| Middle Eastern model: | 531 - 1,602 kHz<br>(with the tuning interval set at 9 kHz) |
| Other models: | 530 - 1,710 kHz<br>(with the tuning interval set at 10 kHz)<br>531 - 1,602 kHz<br>(with the tuning interval set at 9 kHz) |
| Antenna | AM loop antenna, external antenna terminal |
| Intermediate frequency | 450 kHz |

## General

| | |
|---|---|
| Power requirements | |
| North American model: | 120 V AC, 60 Hz |
| European model: | 230 V AC, 50/60 Hz |
| Australian model: | 220 - 240 V AC, 50/60 Hz |
| Mexican model: | 120 V AC, 60 Hz |
| Other models: | 110 - 120 V or 220 - 240 V AC, 50/60 Hz<br>Adjustable with voltage selector |
| Power consumption | 70 W |
| Dimensions (w/h/d) | Approx. 190 × 252 × 310 mm incl. projecting parts and controls |
| Mass | Approx. 5.6 kg |

Design and specifications are subject to change without notice.

# CMT-CP11/CP11K

# SERVICE MANUAL

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*
*Australian Model*
*CMT-CP11*

*E Model*
*CMT-CP11K*

- CMT-CP11/CP11K are composed of following models.
  As for the service manual, it is issued for each component model, then, please refer to them.

## COMPONENT MODEL NAME

| | CMT-CP11/CP11K |
|---|---|
| COMPACT DISC DECK RECEIVER SYSTEM | HCD-CP11 |
| SPEAKER SYSTEM | SS-CCP11 |

- Abbreviation

| | | | |
|---|---|---|---|
| AED | : North European model | SP | : Singapore model |
| CND | : Canadian model | TH | : Thai model |
| TW | : Taiwan model | KR | : Korea model |
| EA | : Saudi Arabia model | MY | : Malaysia model |
| AR | : Argentine model | AUS | : Australian model |
| MX | : Mexican model | HK | : Hong Kong model |

## SPECIFICATIONS

**General**

| | |
|---|---|
| Power requirements | |
| North American model: | 120 V AC, 60 Hz |
| European model: | 230 V AC, 50/60 Hz |
| Australian model: | 220-240 V AC, 50/60 Hz |
| Mexican model: | 120 V AC, 60 Hz |
| Other models: | 110-120 V or 220-240V AC, 50/60 Hz<br>Adjustable with voltageselector. |
| Power consumption | 70 W |
| Dimensions (w/h/d) | Approx. 190 x 252 x 310 mm incl. projecting parts and controls. |
| Mass: | Approx. 5.6 kg |
| Supplied accessories: | Remote Commander (1)<br>AM loop antenna (1)<br>FM lead antenna (1)<br>Batteries (2) |

Design and specifications are subject to change without notice.

## PARTS LIST

| Part No. | Description | Remark |
|---|---|---|
| | ACCESSORIES & PACKING MATERIALS<br>********** | |
| 1-418-299-11 | COMMANDER, STANDARD (RM-SCP1) | |
| 1-501-374-11 | ANTENNA, LOOP | |
| 1-501-659-61 | ANTENNA (FM)(E, AR, TW, KR, US, CND, SP, MY, EA, HK, TH) | |
| 1-754-060-11 | ANTENNA (FM)(AED, AEP, UK, CIS) | |
| 1-569-008-21 | ADAPTOR, CONVERSION 2P (TW, SP, MY, AUS, KR, TH) | |
| 4-227-681-11 | MANUAL, INSTRUCTION (ENGLISH)(EXCEPT AED, KR, TH) | |
| 4-227-681-21 | MANUAL, INSTRUCTION (FRENCH)(US, CND, EA) | |
| 4-227-681-31 | MANUAL, INSTRUCTION (SPANISH)(AR, MX) | |
| 4-227-681-41 | MANUAL, INSTRUCTION (FRENCH, SPANISH)(AEP, E, SP, MY) | |
| 4-227-681-51 | MANUAL, INSTRUCTION (GERMAN)(AEP) | |
| 4-227-681-61 | MANUAL, INSTRUCTION (DUTCH, ITALIAN, PORTUGUESE)(AEP) | |
| 4-227-681-71 | MANUAL, INSTRUCTION (DANISH, FINNISH, SWEDISH)(AED) | |
| 4-227-681-81 | MANUAL, INSTRUCTION (RUSSIAN, POLISH)(CIS) | |
| 4-227-681-91 | MANUAL, INSTRUCTION (ARABIC)(EA) | |
| 4-227-734-11 | MANUAL, INSTRUCTION (CHINESE)(SP, MY, HK, TW) | |
| 4-227-735-31 | MANUAL, INSTRUCTION (TURKISH)(CIS) | |
| 4-227-735-41 | MANUAL, INSTRUCTION (GREEK)(CIS) | |
| 4-991-151-01 | COVER, BATTERY (RM-SCP1) | |

## MICRO HiFi COMPONENT SYSTEM

SONY®

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Sony Corporation
Home Audio Division Company

9-929-094-11

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# SECTION 1
# SERVICING NOTES

### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

### NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

### Notes on chip component replacement

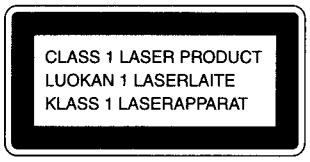
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

### Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.




Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERUEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.**

# SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

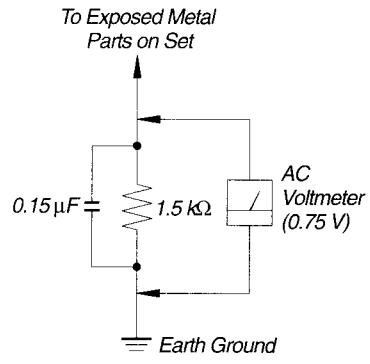
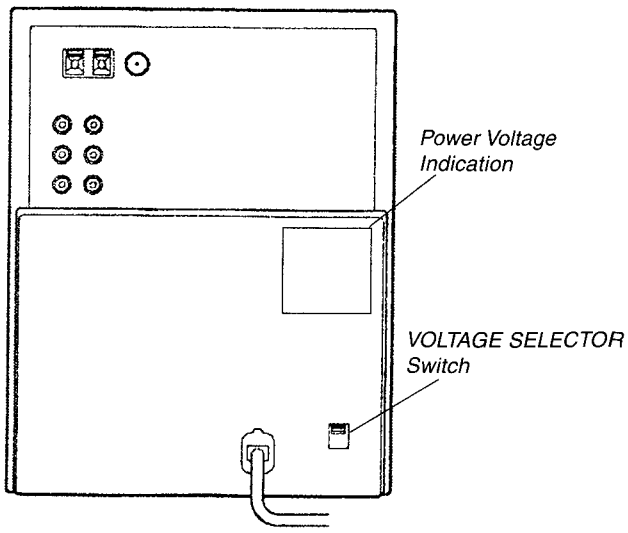



*Fig. A. Using an AC voltmeter to check AC leakage.*

## MODEL IDENTIFICATION
**– Back Panel –**



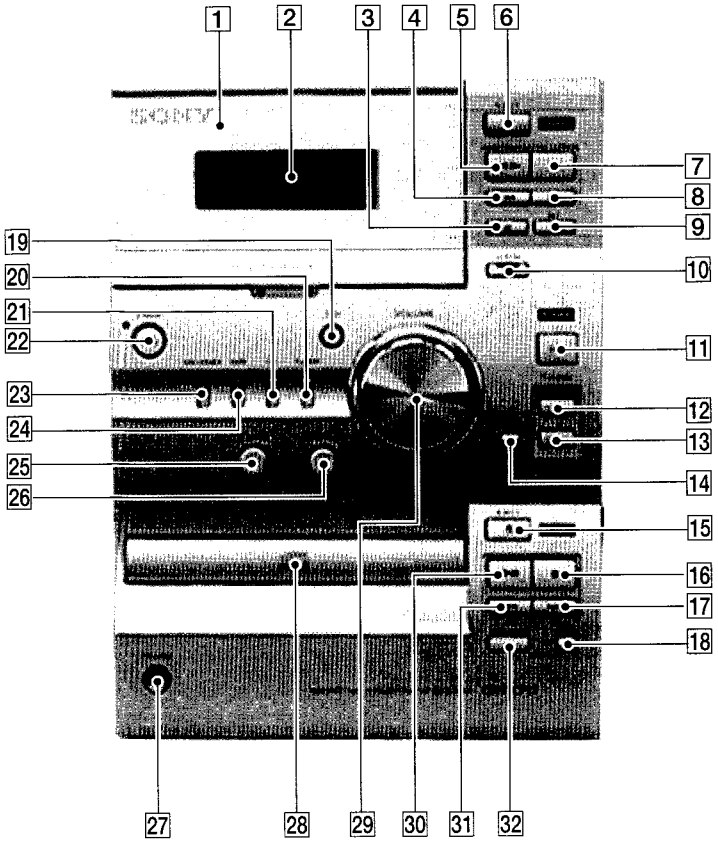

| Model | Power Voltage Incdication |
|---|---|
| US, CND, MX, KR models | AC: 120 V 60 Hz 55 W |
| AEP, UK, AED, CIS, models | AC: 230 V ∼50 Hz 55 W |
| E, EA, AR, HK, MY, SP, TW, AUS models | AC: 110 – 120/ 220 – 240 V / 50/60 Hz 55 W |

- Abbreviation
  - EA : Saudi Arabia model.
  - AUS : Australian model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - TW : Taiwan model.
  - HK : Hong Kong model.
  - AR : Argentine model.
  - CND : Canadian model.
  - AED : North European model.
  - MX : Mexican model.
  - KR : Korean model.

# SECTION 2
# GENERAL

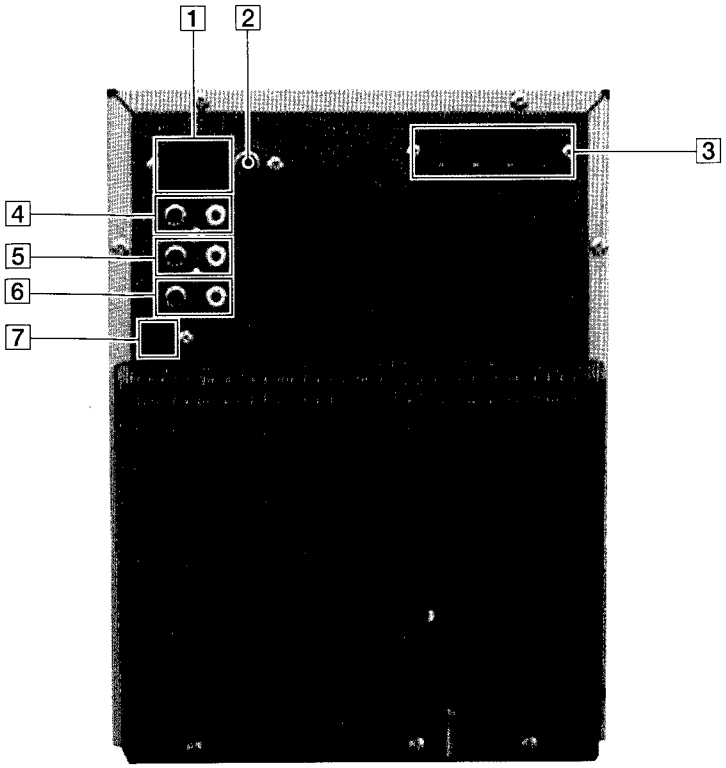
## LOCATION OF CONTROLS

**• Front View**




1 TAPE deck
2 Liquid crystal display
3 TAPE ❚❚ button
4 TAPE ◀◀ button
5 TAPE ◀▶ button
6 TAPE ⏏ button
7 TAPE ■ button
8 TAPE ▶▶ button
9 TAPE REC ● button
10 CD SYNC button and indicator
11 BAND button
12 TUNING + button
13 TUNING – button
14 TUNING MODE button
15 CD EJECT ⏏ button
16 CD ■ button
17 CD ▶▶I ▶▶ button
18 CD REPEAT button
19 DSG button and indicator
20 STANDBY I/⏻ button and indicator
21 MD/VIDEO button and indicator
22 TAPE button and indicator
23 CD button and indicator
24 TUNER button and indicator
25 Remote sensor
26 jack
27 PHONES jack
28 CD disc tray
29 VOLUME knob
30 CD ▶❚❚ button
31 CD I◀◀ ◀◀ button
32 CD PLAY MODE button

**• Rear View**



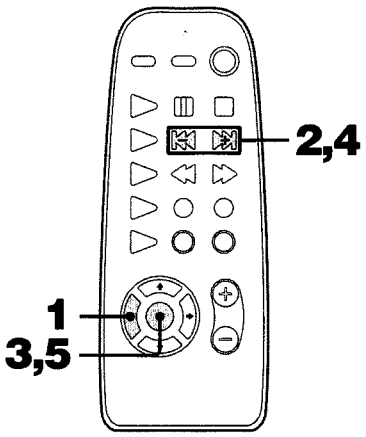

1 AM ANTENNA terminals
2 FM ANTENNA jack or terminals
3 SPEAKER terminals
4 LINE OUT jacks
5 MD IN jacks
6 VIDEO IN jacks
7 CD DIGITAL OUT OPTICAL connector

# Step 2: Setting the time

Before you can use the system's timer functions, set the internal clock.

The clock uses a 24-hour system on the European model, and a 12-hour system on other models.

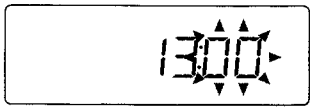
The 24-hour system is used here for illustration purposes.



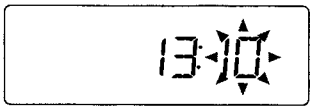

**1** Press TIMER SET.
The hour indication flashes.

**2** Press I◁◁/▷▷I repeatedly to set the hour.

**3** Press ENTER.
The minute indication flashes.



**4** Press I◁◁/▷▷I repeatedly to set the minute.



**5** Press ENTER.
The clock will begin operating.

### To reset the system clock

You can reset the system clock even when the system is on or off.

**1** Press TIMER SET.
**2** Press I◁◁/▷▷I repeatedly until "SET CLOCK" appears, then press ENTER.
**3** Repeat step 2 to 5 in "Step 2: Setting the time".

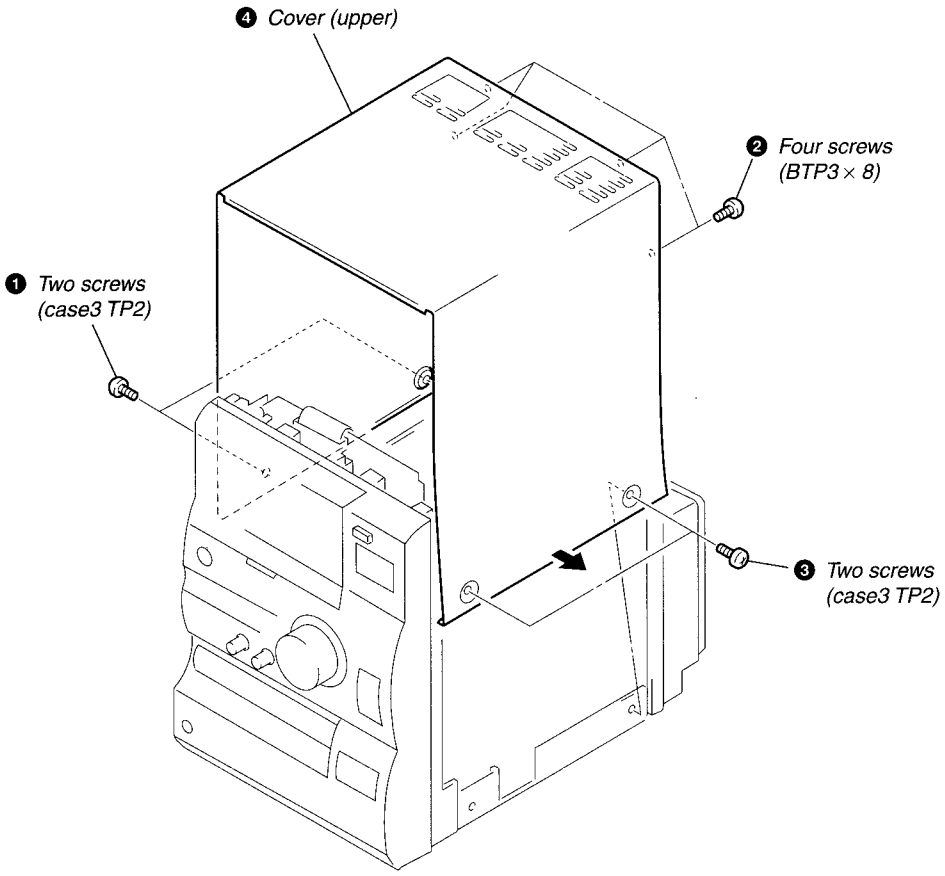
**Tip**

If you make a mistake, start over from step 1.

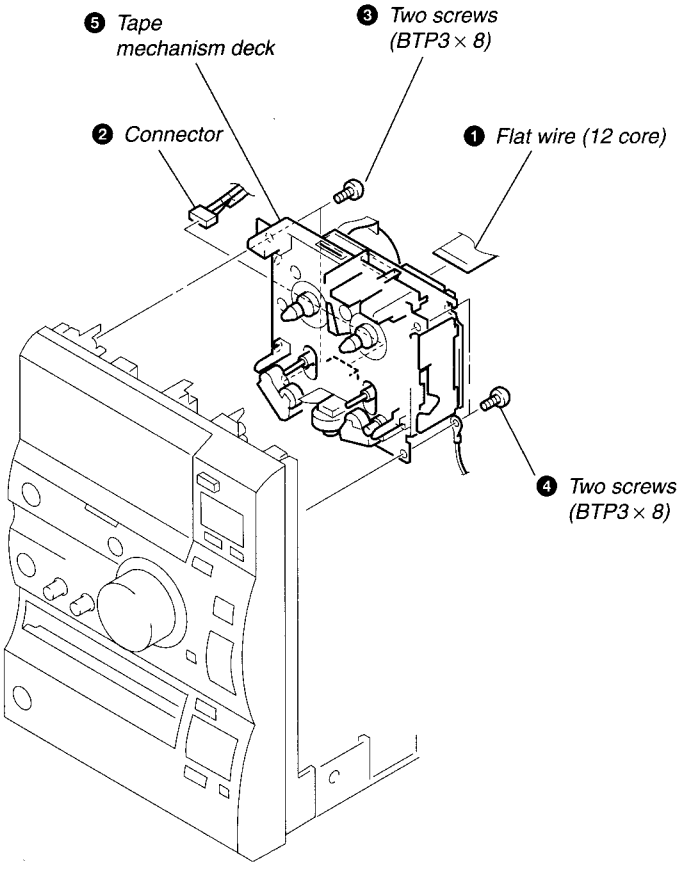
# SECTION 3
# DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

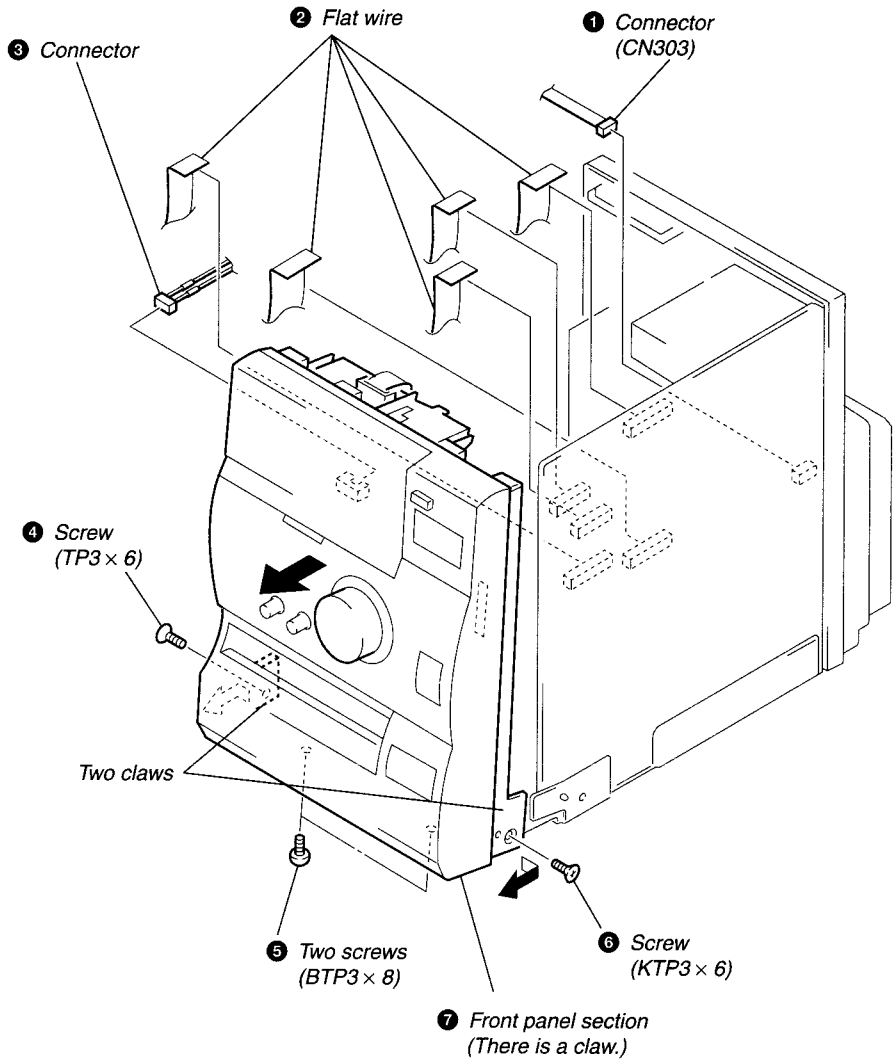
## 3-1. COVER (UPPER)



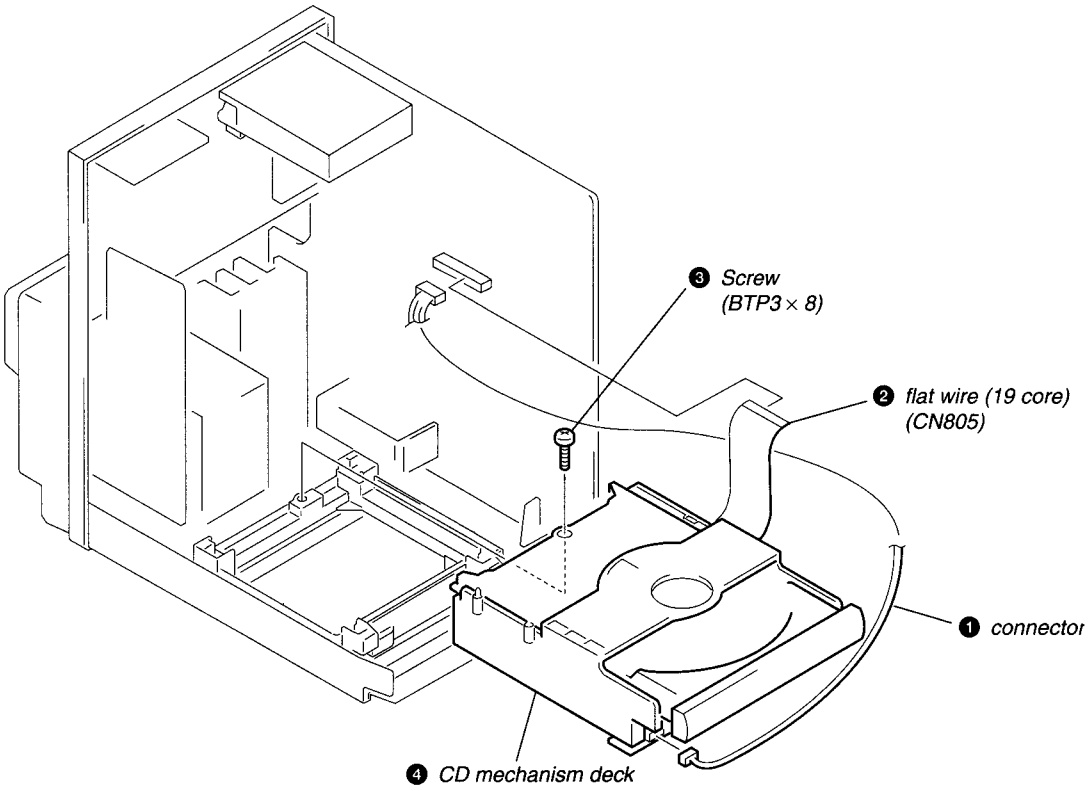

## 3-2. TAPE MECHANISM DECK



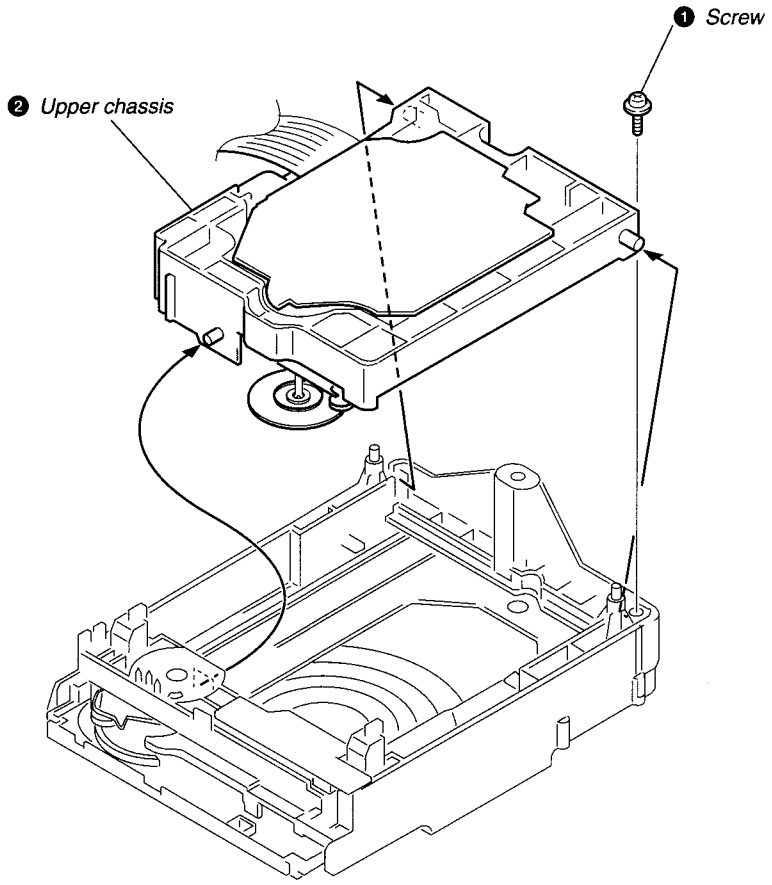
## 3-3. FRONT PAENL SECTION



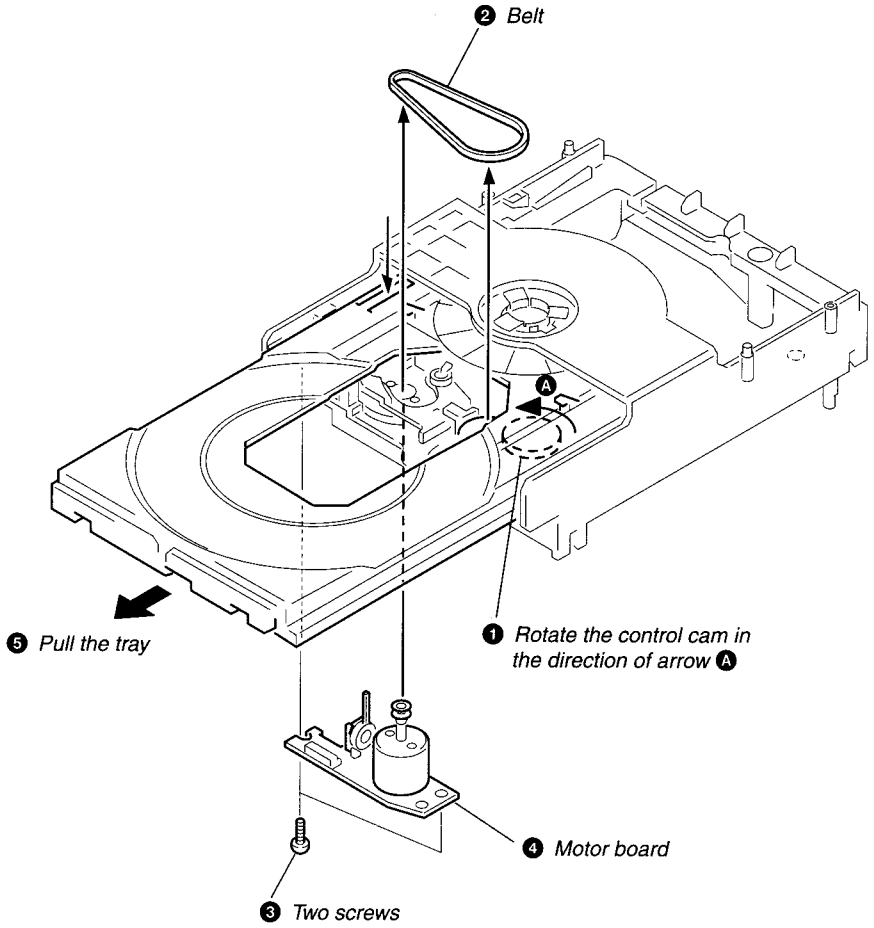
### 3-4. CD MECHANISM DECK



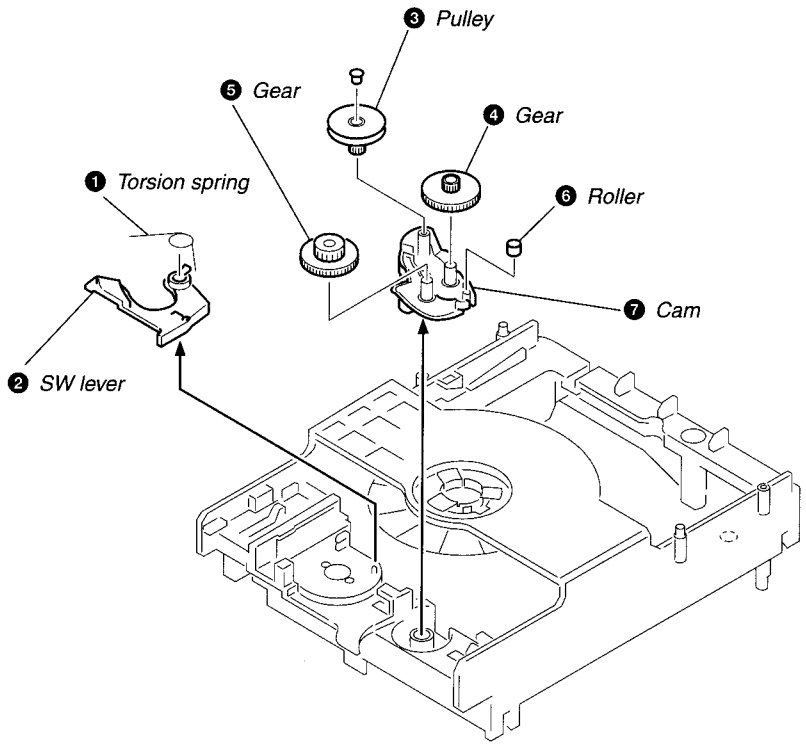

### 3-5. UPPER CHASSIS



## 3-6. TRAY




## 3-7. CAM



# SECTION 4
# SERVICE MODE

### [Liquid Crystal Display All Lit Check Mode]

**Procedure:**

1. Set to standby state.
2. Press three buttons of ■ (TAPE), ■ (CD), and MD/VIDEO simultaneously.
3. Liquid crystal display are all turned on.
4. To exit from this mode, press the I/⏻ button to turn the power OFF.

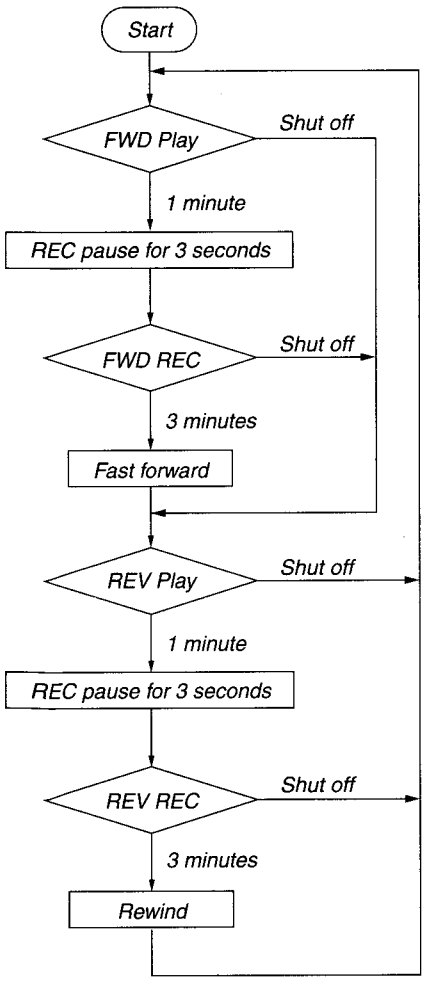
### [Tape Deck Aging Mode]

This mode can be used for operation check of tape deck section.

**Procedure:**

1. Set a tape in the tape deck.
2. Set to standby state.
3. Press three buttons of ■ (TAPE), ■ (CD), and TAPE simultaneously.
4. The aging is executed in bellow sequence.
5. To exit from the aging mode, press the I/⏻ button to turn the power OFF.

**Aging mode sequence:**



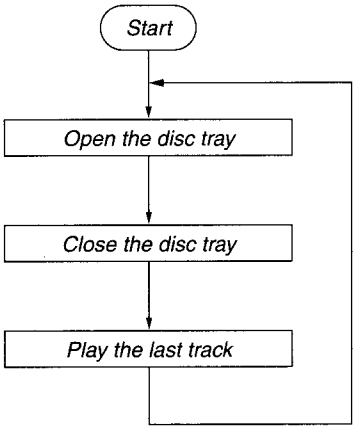

### [CD Aging Mode]

This mode can be used for operation check of CD section.

**Procedure:**

1. Load a CD disc.
2. Set to standby state.
3. Press three buttons of ■ (TAPE), ■ (CD), and TUNER simultaneously.
4. The aging is executed in bellow sequence.
5. To exit from the aging mode, press the I/⏻ button to turn the power OFF.

**Aging mode sequence:**



# SECTION 5
# ELECTRICAL CONFIRMATIONS AND ADJUSTMENTS

**DECK SECTION** | 0 dB=0.775 V

**Note:** Confirm each contents of this section first of all. If the results are not satisfied, do the adjustment.

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

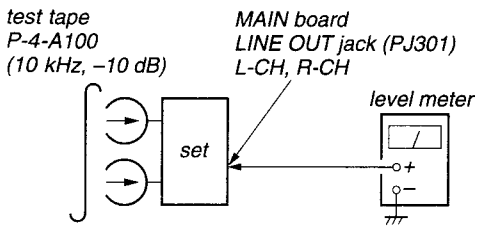
• Test Tape

| Tape | Signal | Used for |
|---|---|---|
| P-4-A100 | 10 kHz, –10 dB | Azimuth Adjustment |
| WS-48B | 3 kHz, 0 dB | Tape Speed Adjustment |
| P-4-L300 | 315 Hz, 0 dB | Level Adjustment |

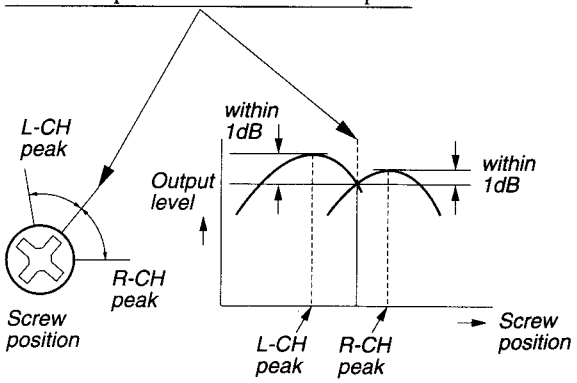
### Record/Playback Head Azimuth Adjustment

**Procedure:**

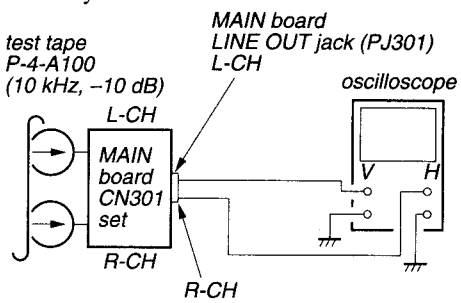
1. Mode: Playback

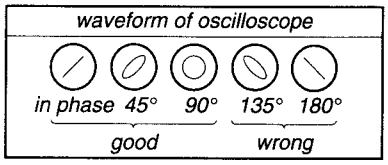



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



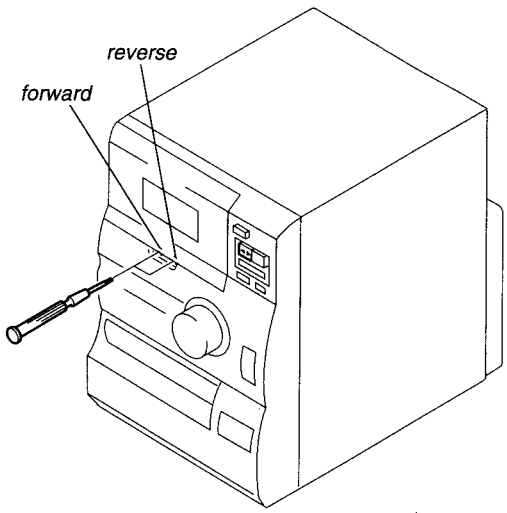

3. Mode: Playback




4. Repeat step 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the pats adjusted.

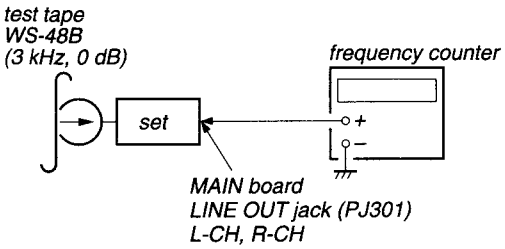
**Adjustment Location:**



### Playback level Confirmation and Adjustment

**Procedure:**

Mode: Playback




Confirm playback level is within specification values as follows. If these levels are out of specification values, adjust the RV151 (L-CH) and RV251 (R-CH) on the MAIN board so that the level meter reading become within specification values.

**Specification values:**

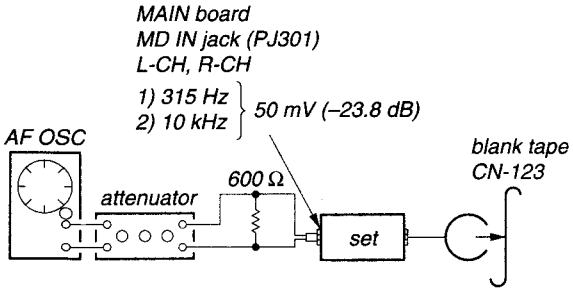
PJ301 PB level: 301.5 to 338.3 mV (–8.2 to –7.2 dB) level difference between the channels: within ±0.5 dB

**Adjustment Location:** MAIN board

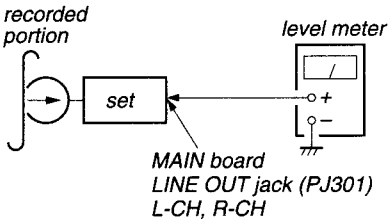
### REC Bias Confirmation and Adjustment

**Procedure:**

1. Mode: Record




2. Mode: Playback




3. Confirm playback the signal recorded in step 1 become specification values as follows.
   If these values are out of specification values, adjust the RV153 (L-CH) and RV253 (R-CH) on the MAIN board to repeat steps 1and 2.

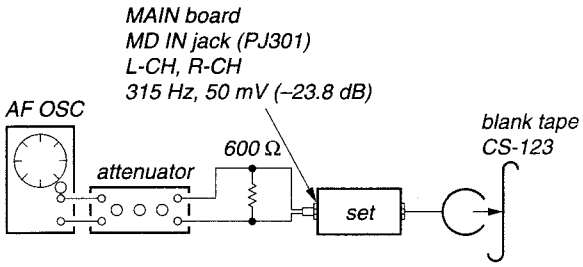
**Specification values:** Playback output of 315 Hz to playback output of 10 kHz: ± 0.5 dB

**Adjustment Location:** MAIN board

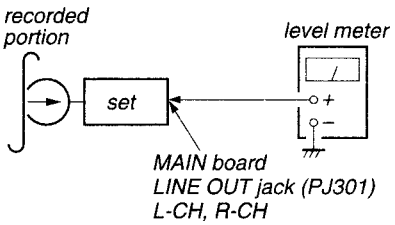
### REC Level Confirmation and Adjustment

**Procedure:**

1. Mode: Record




2. Mode: Playback



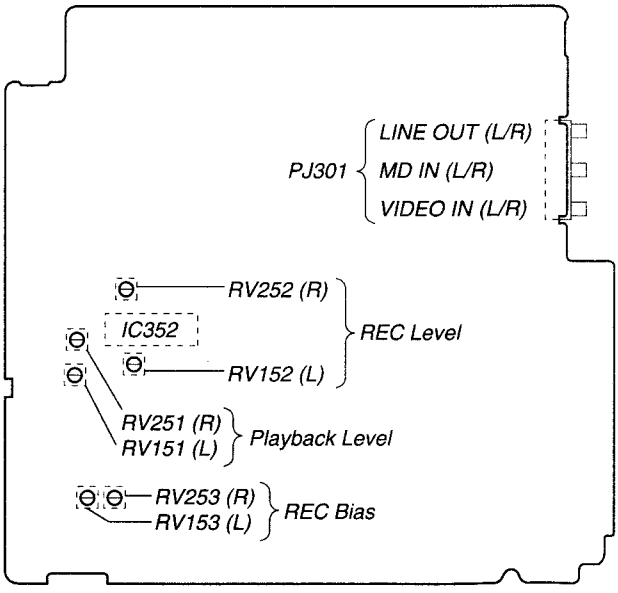

3. Confirm playback the signal recorded in step 1 become specification values as follows.
   If these values are out of specification values, adjust the RV252 (R-CH) and RV152 (L-CH) on the MAIN board to repeat steps 1 and 2.

**Specification values:**

PJ301 PB level: 47.2 to 53.0 mV (– 24.3 to – 23.3 dB)

**Adjustment Location:** MAIN board

**– MAIN BOARD** (Conductor Side) –



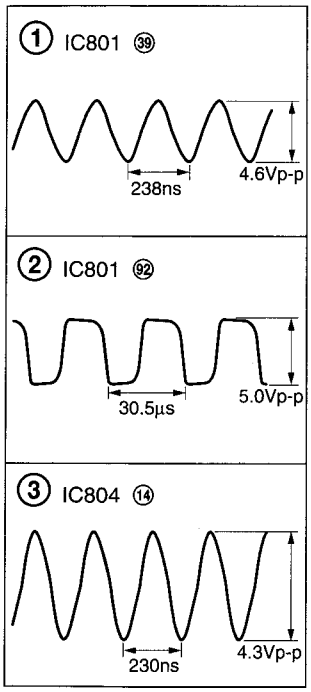
# SECTION 6
# DIAGRAMS

## NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGARAMS

**Note on Printed Wiring Board:**

- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.

**• Waveforms**
**– MAIN Board –**



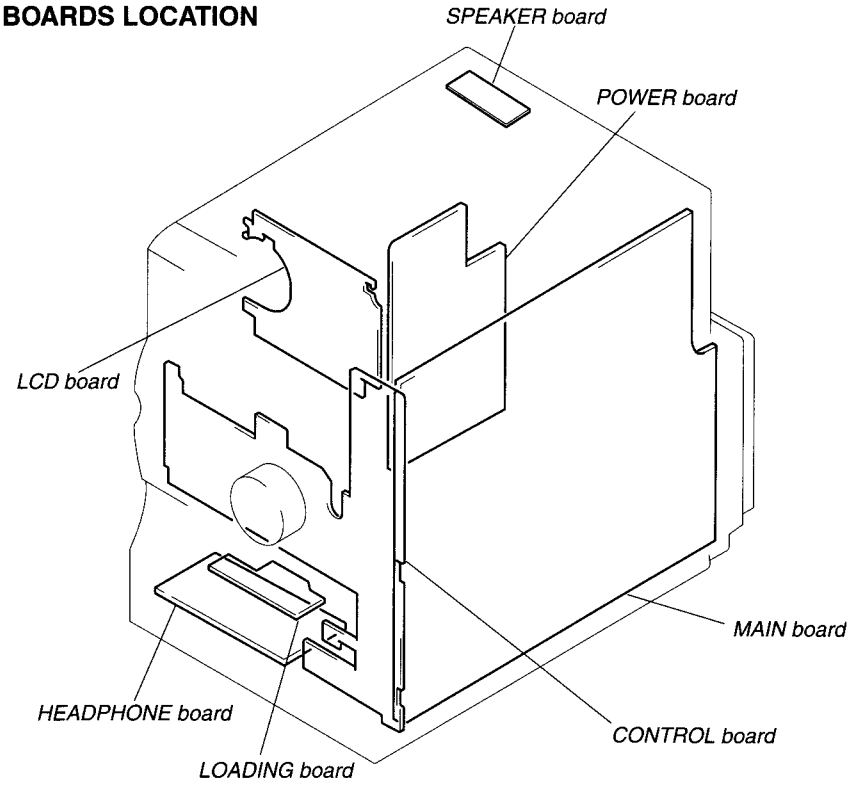

**Note on Schematic Diagram:**

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

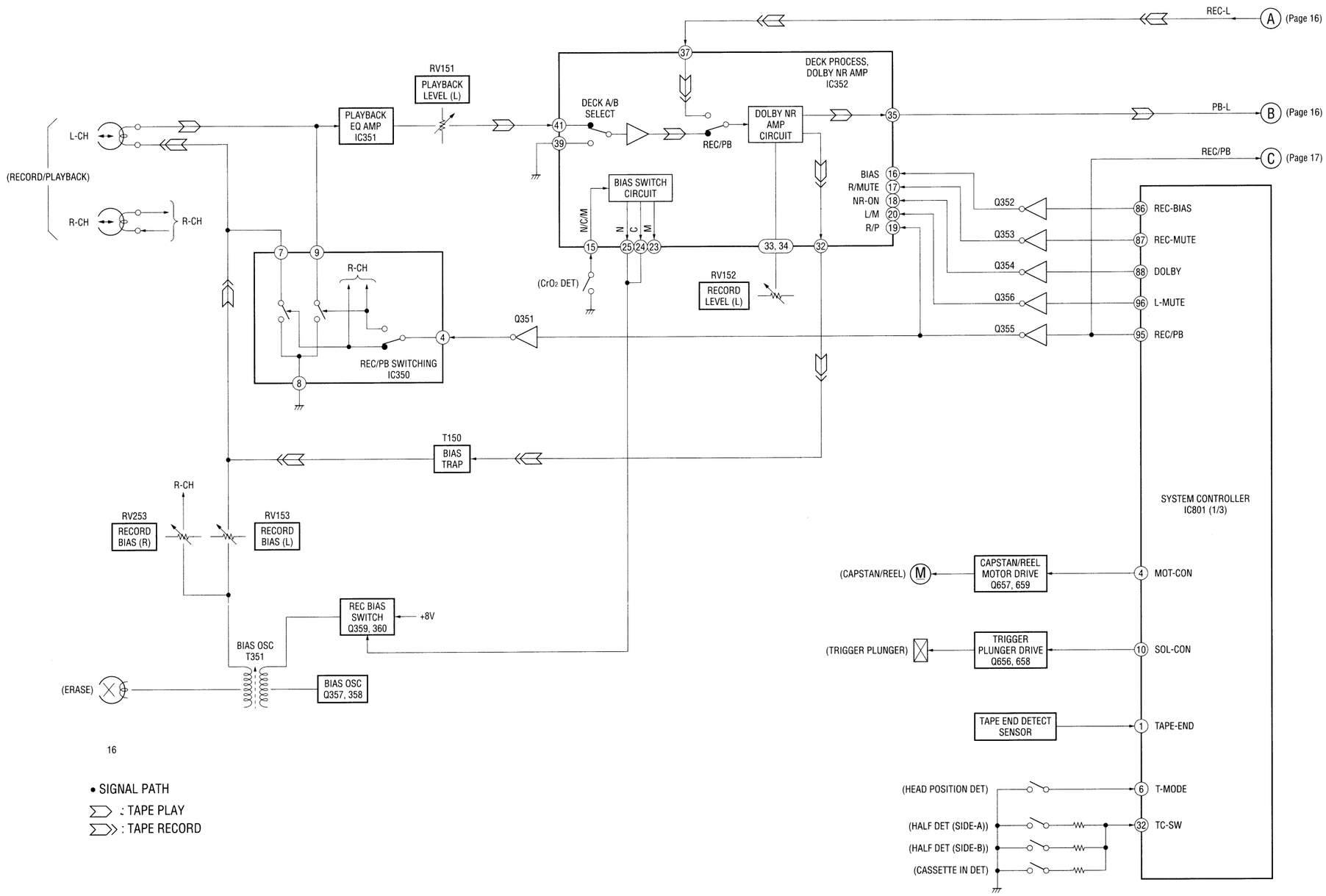
| Note: | Note: |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié. |

- B+ : B+ Line.
- B– : B– Line.
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : TUNER
  - Σ : TAPE PLAY
  - Σ» : TAPE RECORD
  - ⇛ : CD PLAY (ANALOG OUT)
  - ⇛ : CD PLAY (OPTICAL OUT)
- Abbreviation
  - EA : Saudi Arabia model.
  - AUS : Australian model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - TW : Taiwan model.
  - HK : Hong Kong model.
  - AR : Argentine model.
  - CND : Canadian model.
  - AED : North European model.
  - MX : Mexican model.
  - KR : Korean model.

## 6-1. CIRCUIT BOARDS LOCATION



## 6-2. BLOCK DIAGRAM – TAPE Section –

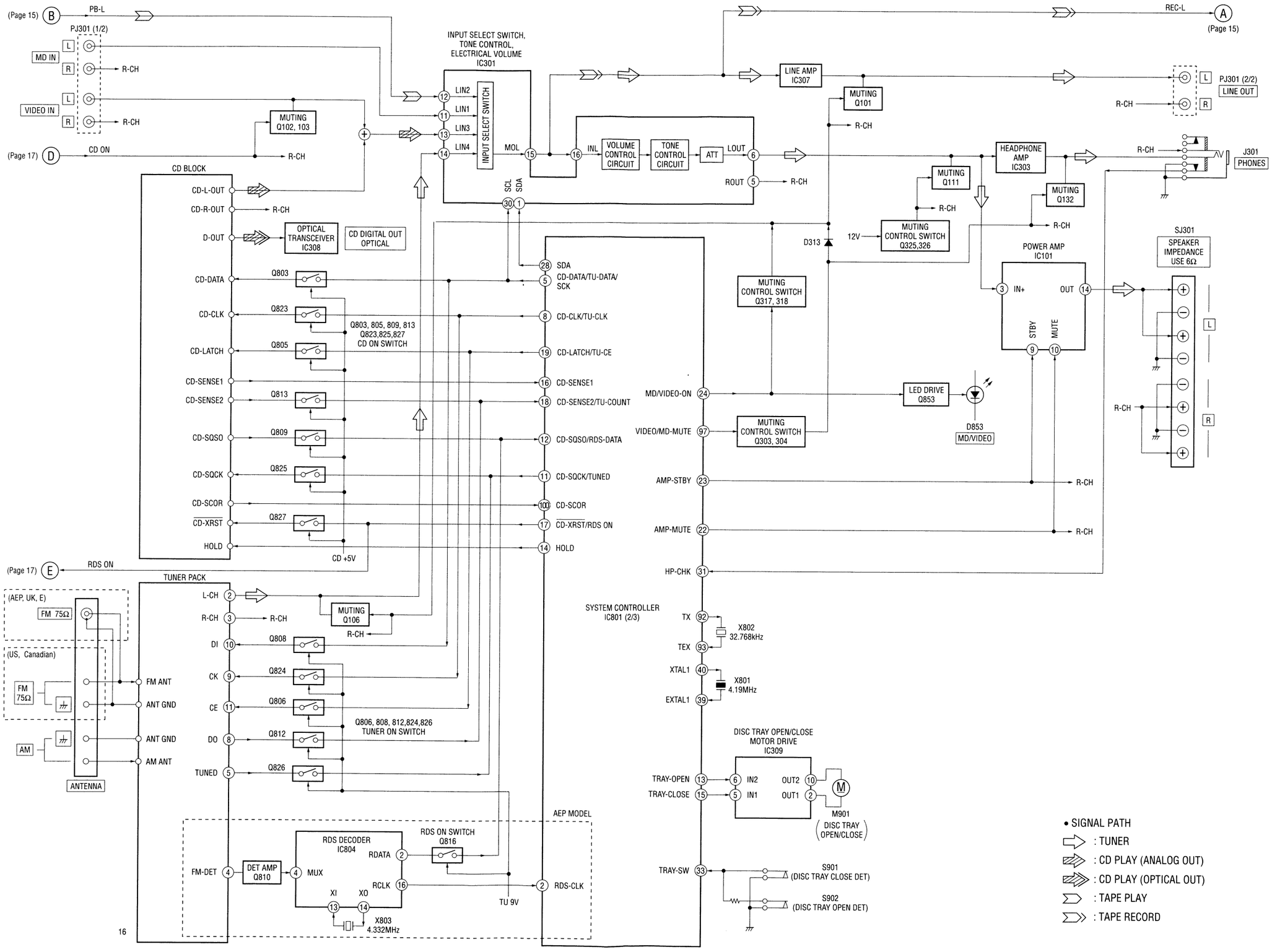



16

• SIGNAL PATH
: TAPE PLAY
: TAPE RECORD


15

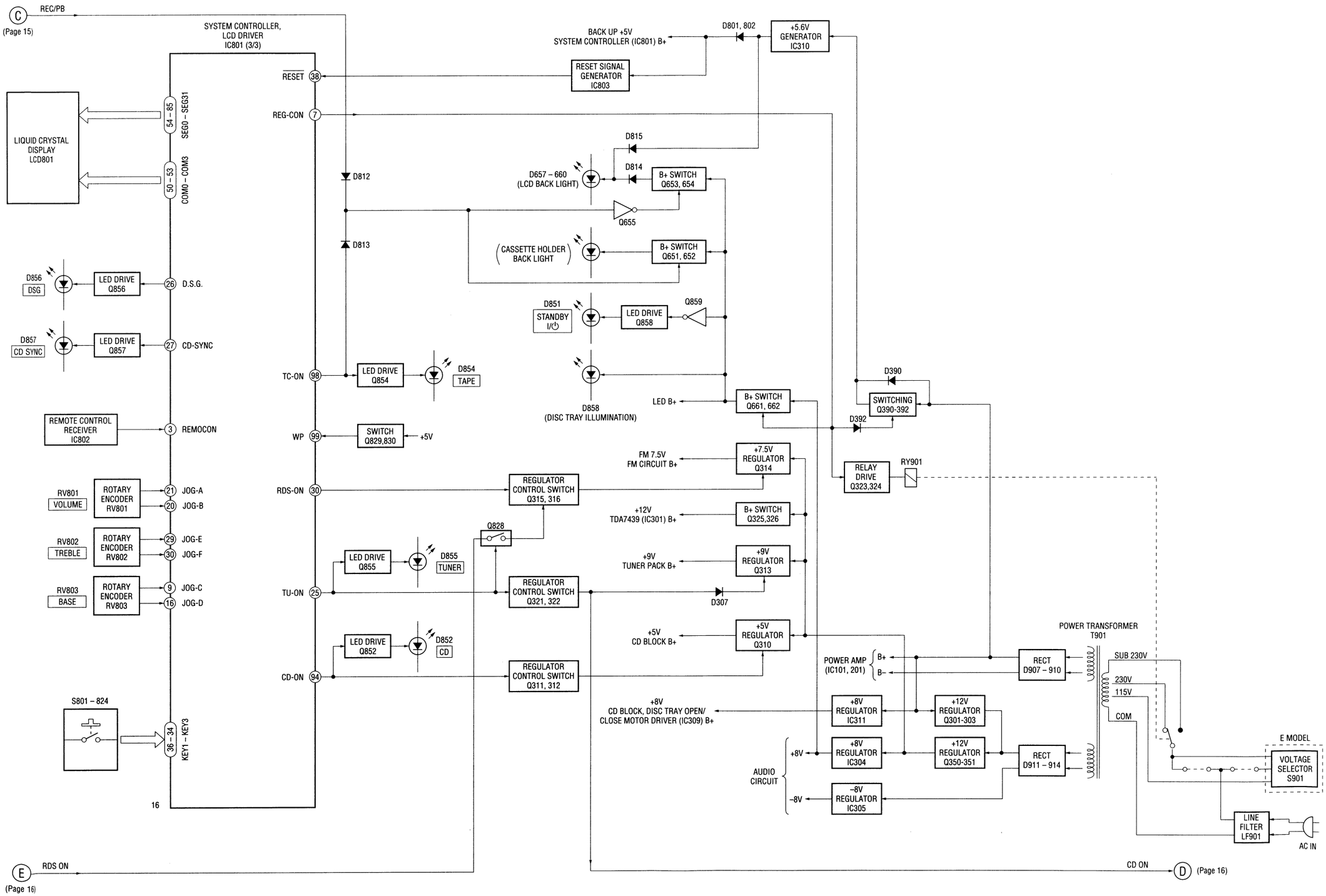
## 6-3. BLOCK DIAGRAM – MAIN Section –






16 16

## 6-4. BLOCK DIAGRAM – DISPLAY/POWER SUPPLY Section –

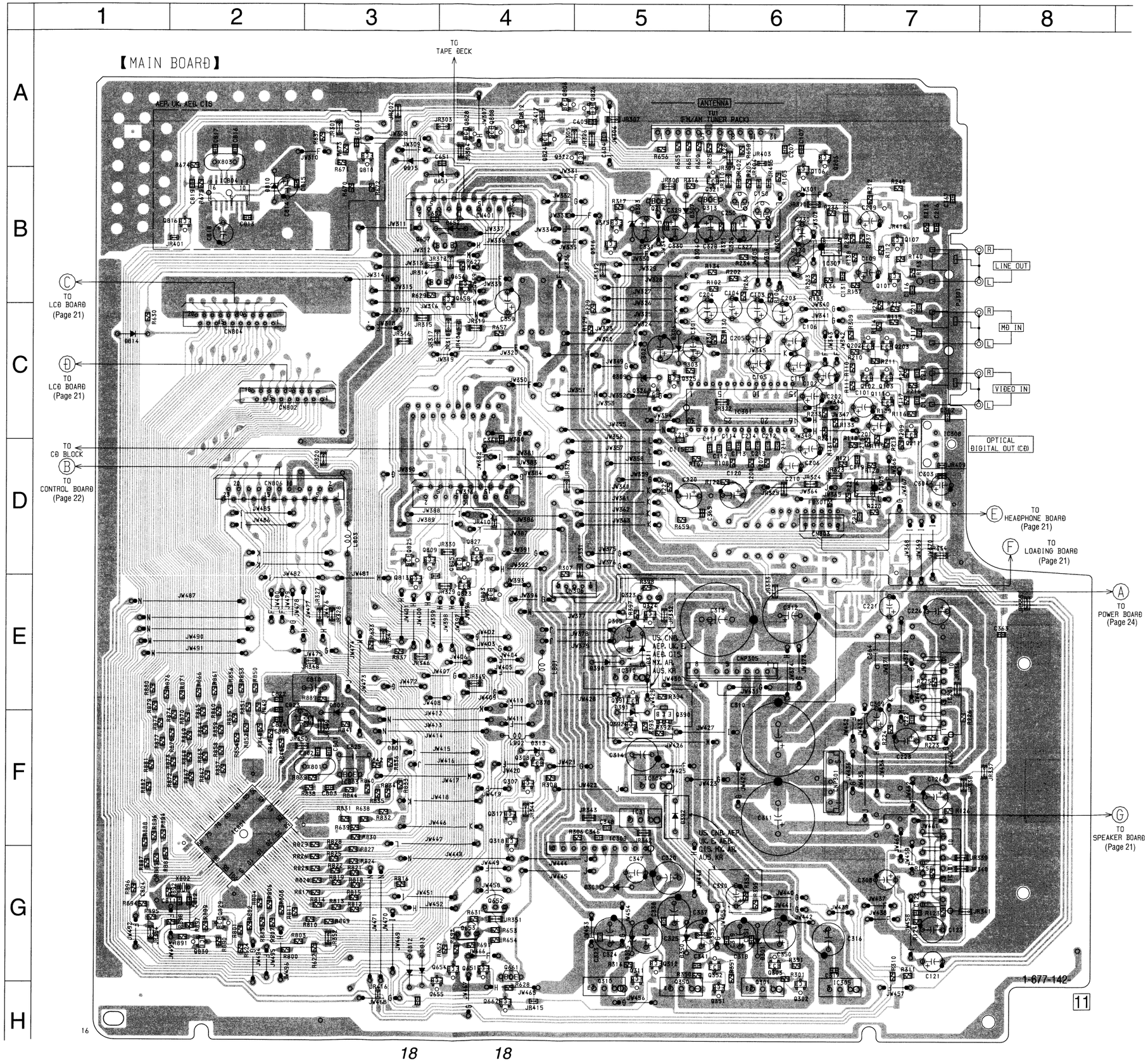


## 6-5. PRINTED WIRING BOARD – MAIN Section –

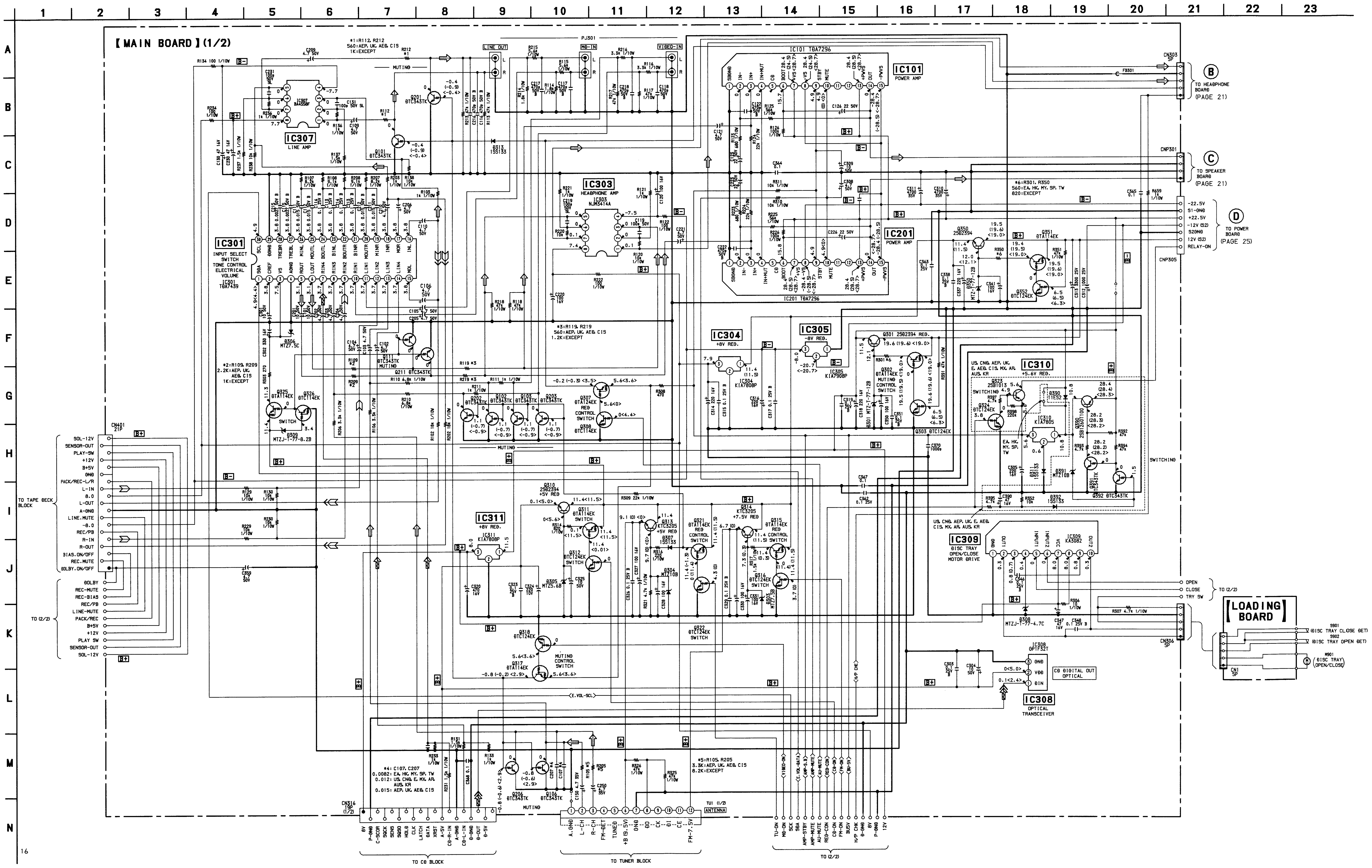
• See page 14 for Circuit Boards Location.

• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D301 | G-6 | Q308 | F-4 |
| D303 | B-5 | Q310 | G-5 |
| D304 | B-5 | Q311 | G-5 |
| D305 | G-5 | Q312 | G-5 |
| D306 | C-5 | Q313 | A-6 |
| D307 | B-5 | Q314 | B-5 |
| D308 | G-5 | Q315 | B-5 |
| D309 | C-5 | Q316 | B-5 |
| D311 | E-5 | Q317 | F-4 |
| D313 | F-4 | Q318 | F-4 |
| D350 | G-5 | Q321 | B-6 |
| D390 | E-5 | Q322 | A-4 |
| D391 | E-5 | Q323 | D-5 |
| D392 | F-5 | Q324 | D-5 |
| D651 | A-3 | Q325 | C-5 |
| D652 | B-4 | Q326 | C-5 |
| D801 | E-3 | Q350 | G-5 |
| D802 | E-3 | Q351 | G-6 |
| D812 | G-3 | Q352 | G-6 |
| D813 | G-4 | Q390 | E-5 |
| D814 | C-1 | Q391 | E-5 |
| D815 | A-3 | Q392 | E-5 |
| | | Q651 | G-4 |
| IC101 | G-7 | Q652 | G-4 |
| IC201 | E-7 | Q653 | G-4 |
| IC301 | C-6 | Q654 | G-4 |
| IC303 | D-7 | Q655 | G-4 |
| IC304 | F-5 | Q656 | B-4 |
| IC305 | G-6 | Q657 | B-3 |
| IC307 | B-6 | Q658 | B-4 |
| IC308 | D-7 | Q659 | B-4 |
| IC309 | F-5 | Q661 | G-4 |
| IC310 | E-5 | Q662 | G-4 |
| IC311 | F-5 | Q803 | D-4 |
| IC801 | F-2 | Q805 | D-4 |
| IC803 | F-3 | Q806 | A-4 |
| IC804 | B-2 | Q808 | A-4 |
| | | Q809 | D-3 |
| Q101 | B-7 | Q810 | A-3 |
| Q102 | C-7 | Q812 | A-4 |
| Q103 | C-7 | Q813 | D-3 |
| Q106 | A-6 | Q816 | B-2 |
| Q111 | C-7 | Q823 | D-4 |
| Q202 | C-7 | Q824 | A-4 |
| Q203 | C-7 | Q825 | D-3 |
| Q206 | A-6 | Q826 | A-5 |
| Q211 | C-7 | Q827 | D-4 |
| Q301 | G-6 | Q828 | A-4 |
| Q302 | G-6 | Q829 | G-2 |
| Q303 | G-6 | Q830 | G-2 |
| Q307 | F-4 | | |



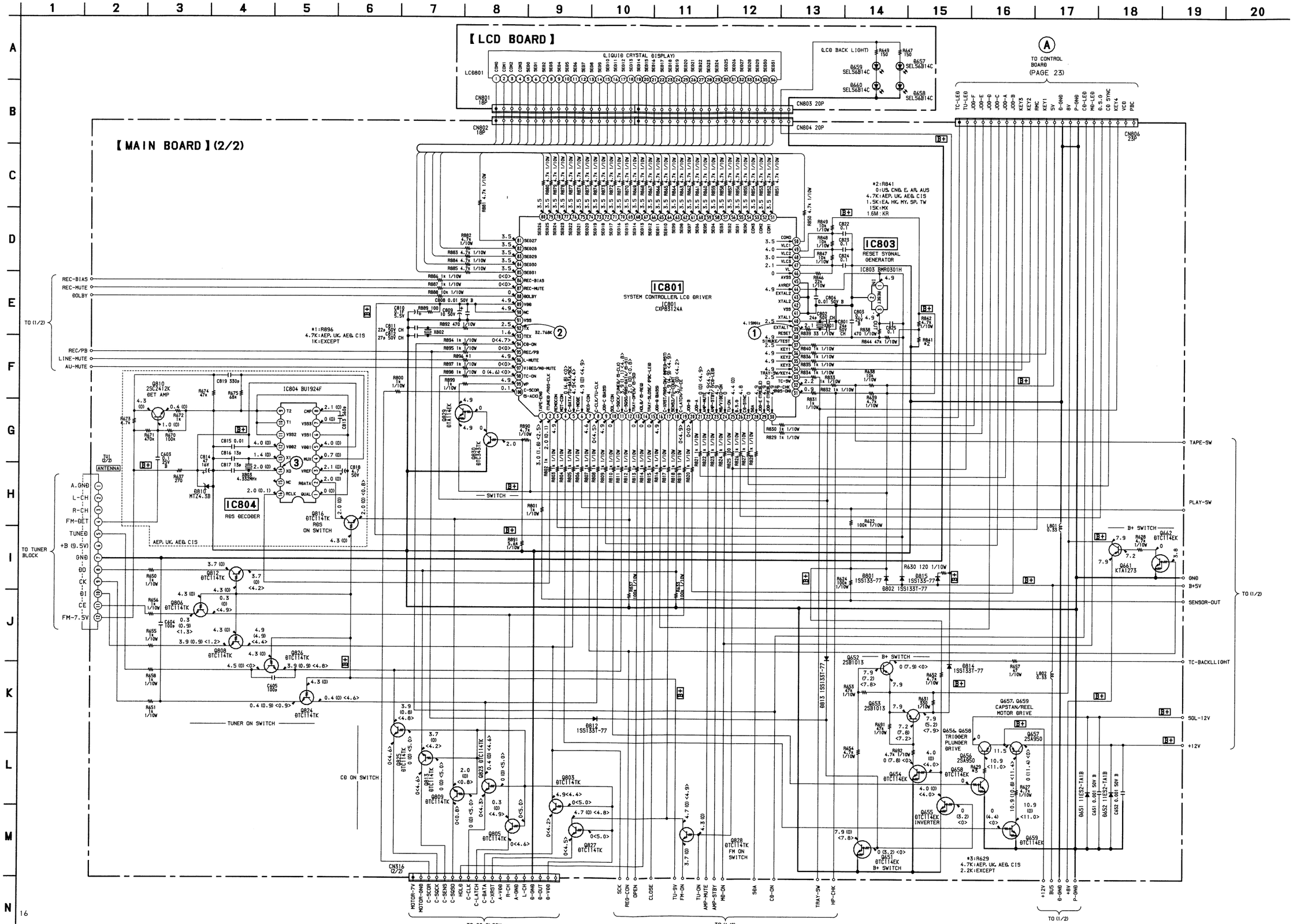
## 6-6. SCHEMATIC DIAGRAM – MAIN Section (1/2) – • See page 35 for IC Block Diagram.



【MAIN BOARD】(1/2)
IC101 TDA7296
POWER AMP
IC201 TDA7296
POWER AMP
IC301
INPUT SELECT SWITCH
TONE CONTROL
ELECTRICAL VOLUME
IC301 TDA7439
IC303
HEADPHONE AMP
IC303 NJM3414A
IC304
+8V REG.
IC304 KIA7808P
IC305
-8V REG.
IC305 KIA7908P
IC307
LINE AMP
IC307 BA4558F
IC308
OPTICAL TRANSCEIVER
IC308 GP1F32T
IC309
DISC TRAY OPEN/CLOSE MOTOR DRIVE
IC309 KA3082
IC310
+5.6V REG.
IC310 KIA7805
IC311
+8V REG.
IC311 KIA7808P
CD DIGITAL OUT OPTICAL
PJ301
LINE OUT
MD-IN
VIDEO-IN
MUTING
SWITCHING
*1:R112, R212
560:AEP, UK, AED, CIS
1K:EXCEPT
*2:R109, R209
2.2K:AEP, UK, AED, CIS
1K:EXCEPT
*3:R119, R219
560:AEP, UK, AED, CIS
1.2K:EXCEPT
*4: C107, C207
0.0082: EA, HK, MY, SP, TW
0.012: US, CND, E, MX, AR, AUS, KR
0.015: AEP, UK, AED, CIS
*5:R105, R205
3.3K:AEP, UK, AED, CIS
8.2K:EXCEPT
*6:R301, R350
560:EA, HK, MY, SP, TW
820:EXCEPT
CN303 5P
TO HEADPHONE BOARD (PAGE 21)
CNP301
TO SPEAKER BOARD (PAGE 21)
CNP305
-22.5V
S1-GND
+22.5V
-12V (S2)
S2GND
12V (S2)
RELAY-ON
TO POWER BOARD (PAGE 25)
CN401 21P
SOL-12V
SENSOR-OUT
PLAY-SW
+12V
B+5V
GND
PACK/REC-L/R
L-IN
8.0
L-OUT
A-GND
LINE.MUTE
-8.0
REC/PB
R-IN
R-OUT
BIAS.ON/OFF
REC.MUTE
DOLBY.ON/OFF
TO TAPE DECK BLOCK
DOLBY
REC-MUTE
REC-BIAS
REC/PB
LINE-MUTE
PACK/REC
B+5V
+12V
PLAY SW
SENSOR-OUT
SOL-12V
TO (2/2)
CN316 19P (1/2)
8V
P-GND
C-SCOR
SQCK
SENS
SQSO
HOLD
CLK
LATCH
DATA
XRST
A-5V
CD-R-IN
A-GND
CD-L-IN
D-GND
D-OUT
D-5V
TO CD BLOCK
TU1 (1/2)
ANTENNA
A.GND
L-CH
R-CH
FM-DET
TUNED
+B (9.5V)
GND
DO
CK
DI
CE
FM-7.5V
TO TUNER BLOCK
TU-ON
MD-ON
SCK
SDA
AMP-STBY
AMP-MUTE
AU-MUTE
REG-CON
CD-ON
FM-ON
BU5V
H/P CHK
D-GND
8V
P-GND
12V
TO (2/2)
OPEN
CLOSE
TRY SW
TO (2/2)
CN306 5P
【LOADING BOARD】
CN1 5P
S901 (DISC TRAY CLOSE DET)
S902 (DISC TRAY OPEN DET)
M901 (DISC TRAY OPEN/CLOSE)

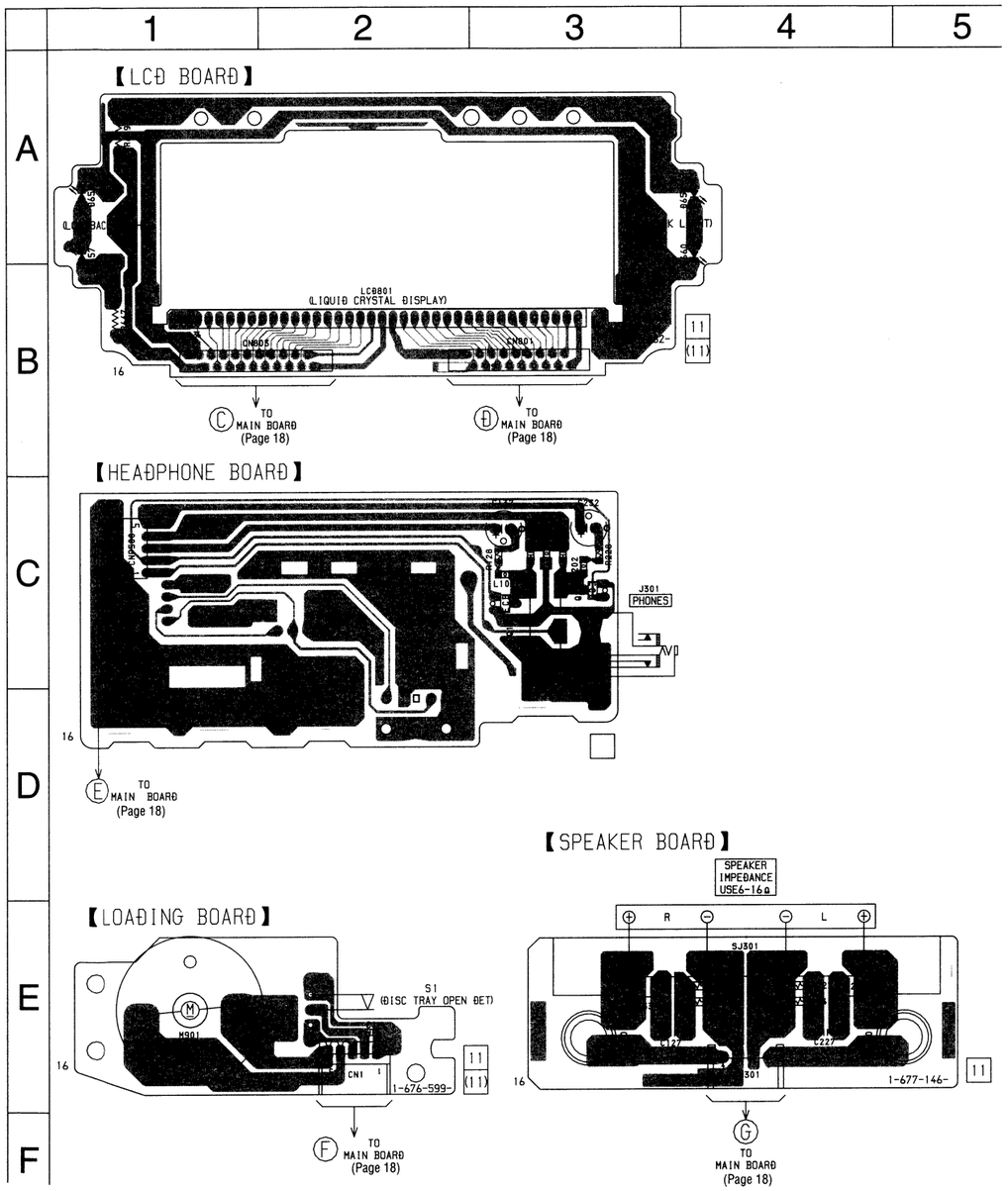
## 6-7. SCHEMATIC DIAGRAM – MAIN Section (2/2) –

• See page 35 for IC Block Diagrams.  • See page 14 for Waveforms.

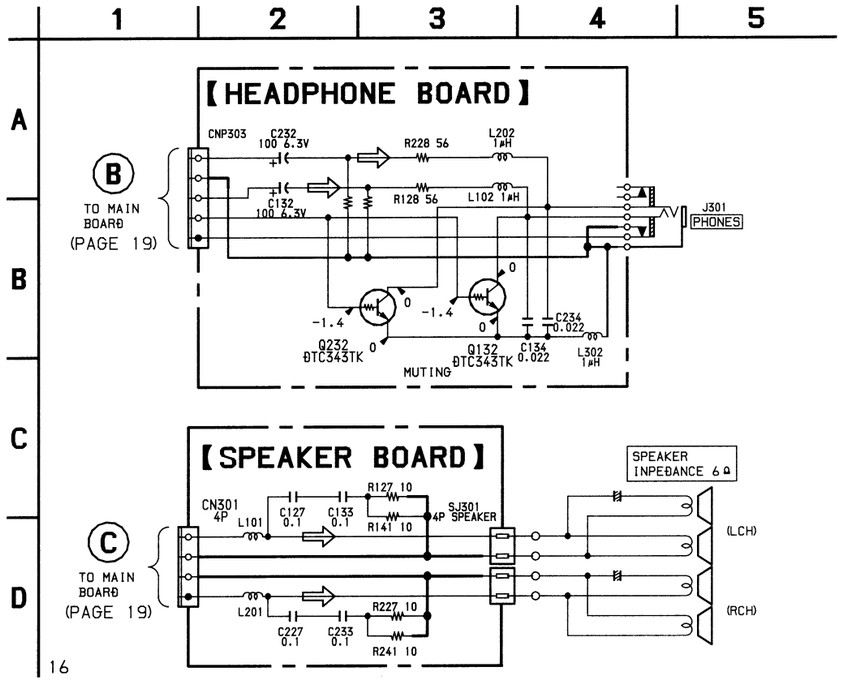


## 6-8. PRINTED WIRING BOARDS – LCD/HEADPHONE/LOADING/SPEAKER Section –


- See page 14 for Circuit Boards Location.
- See page 20 for LCD BOARD Schematic Diagram.
- See page 19 for LOADING BOARD Schematic Diagram.

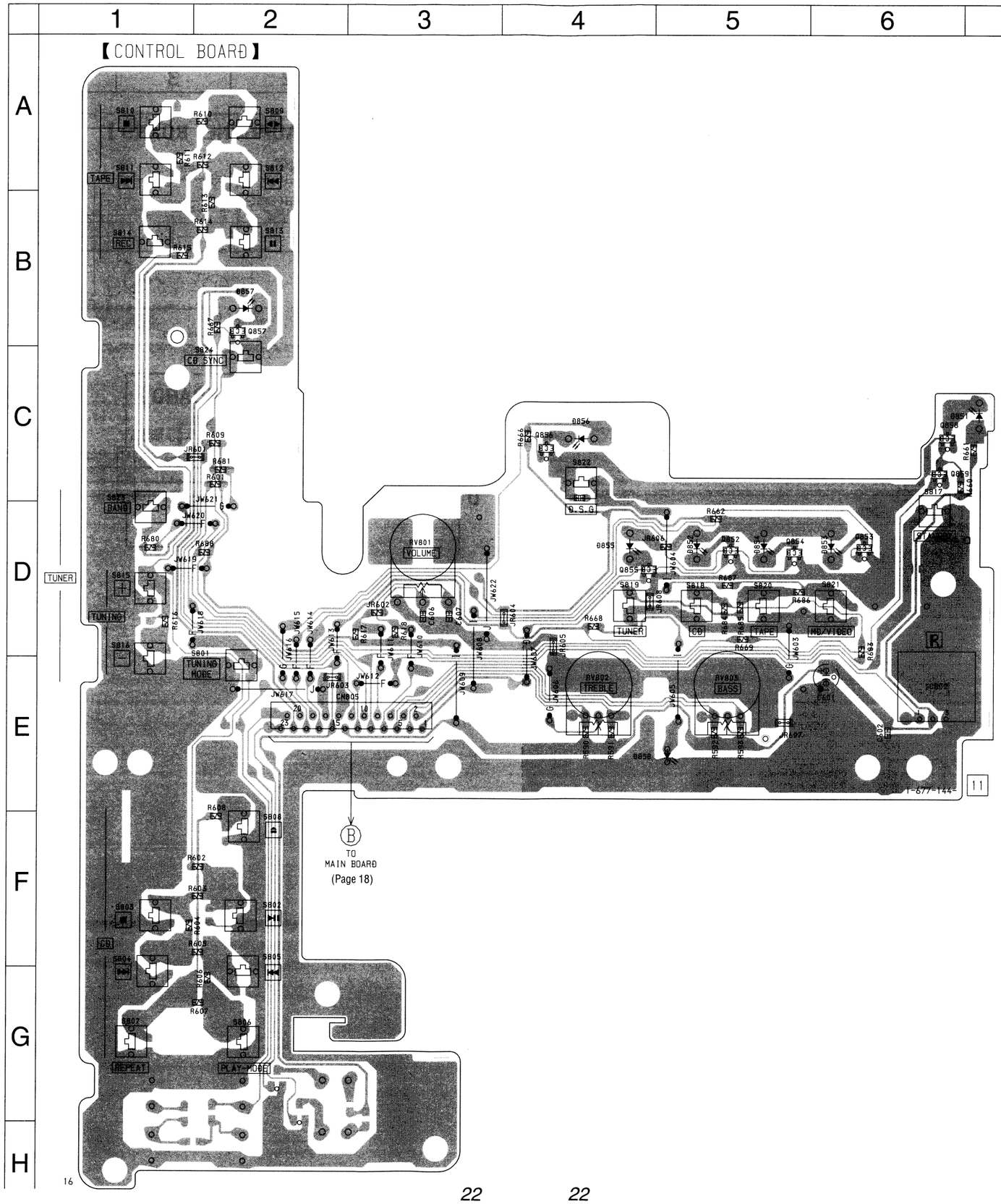

## 6-9. SCHEMATIC DIAGRAMS – HEADPHONE/SPEAKER Section –



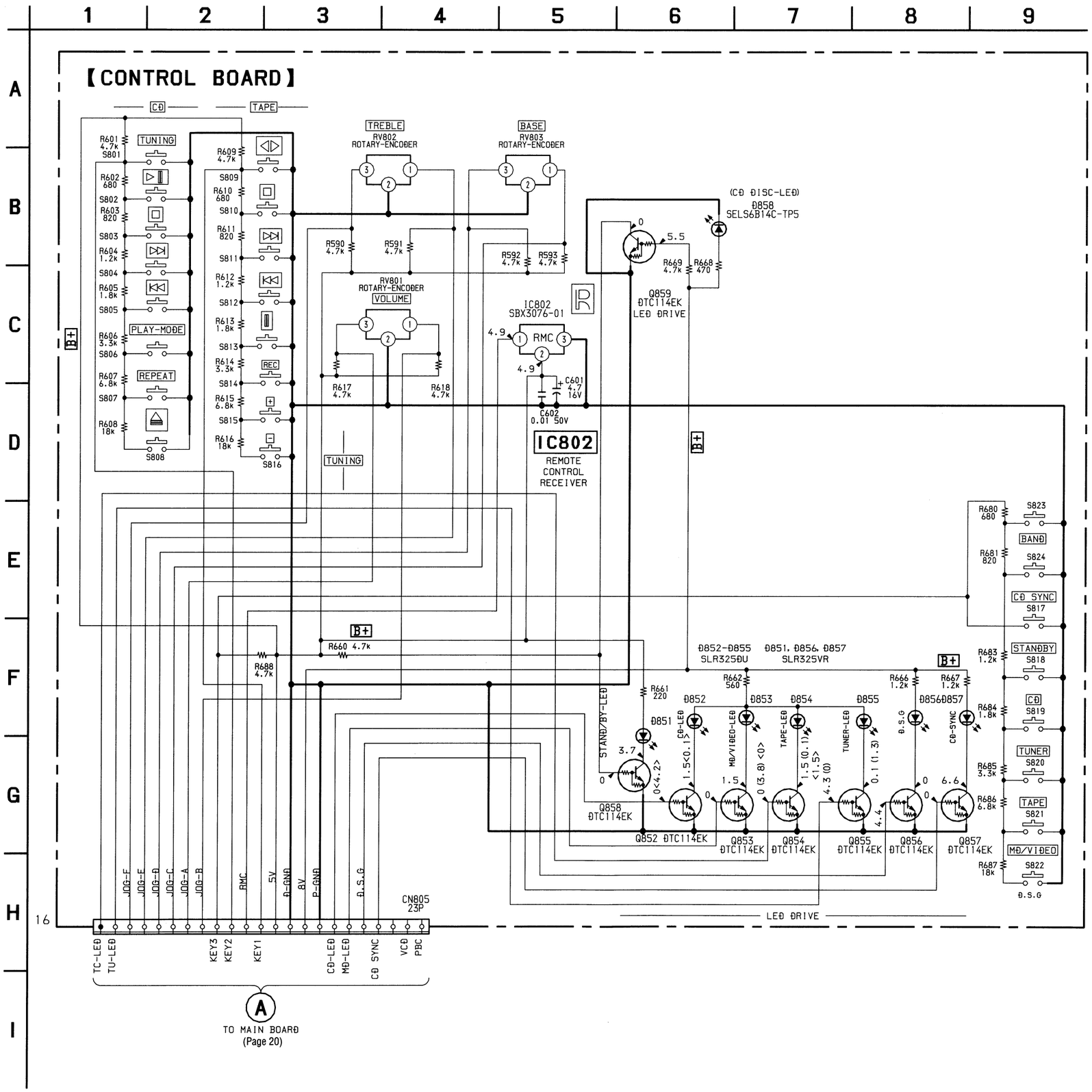
## 6-10. PRINTED WIRING BOARDS – CONTROL Section – • See page 14 for Circuit Boards Location.

**• Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D851 | C-7 |
| D852 | D-5 |
| D853 | D-6 |
| D854 | D-5 |
| D855 | D-4 |
| D856 | C-4 |
| D857 | B-2 |
| D858 | E-4 |
| IC802 | E-6 |
| Q852 | D-5 |
| Q853 | D-6 |
| Q854 | D-5 |
| Q855 | D-4 |
| Q856 | C-4 |
| Q857 | B-2 |
| Q858 | C-6 |
| Q859 | C-6 |



## 6-11. SCHEMATIC DIAGRAM – PANEL Section –

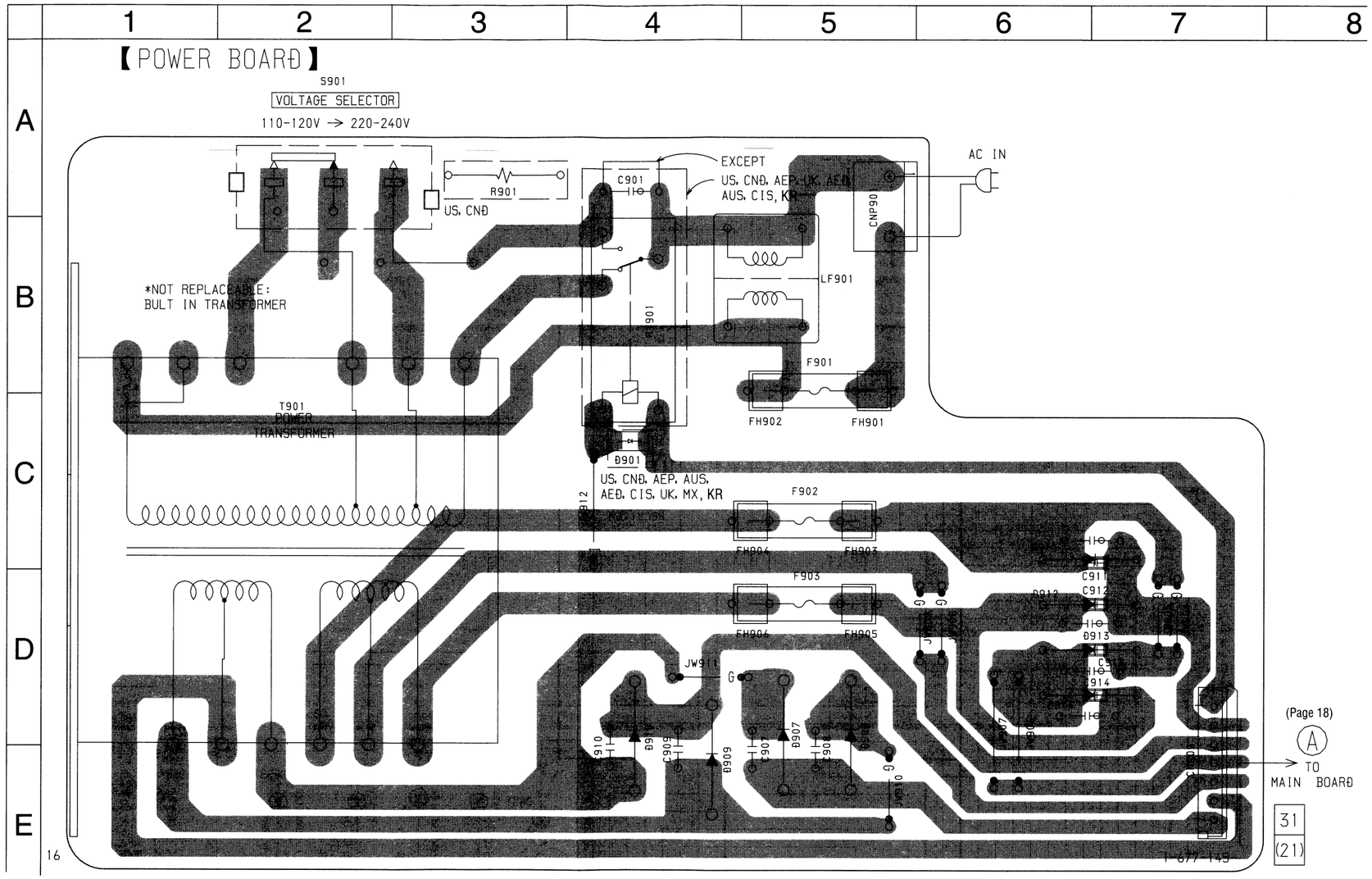


## 6-12. PRINTED WIRING BOARD – POWER Section –

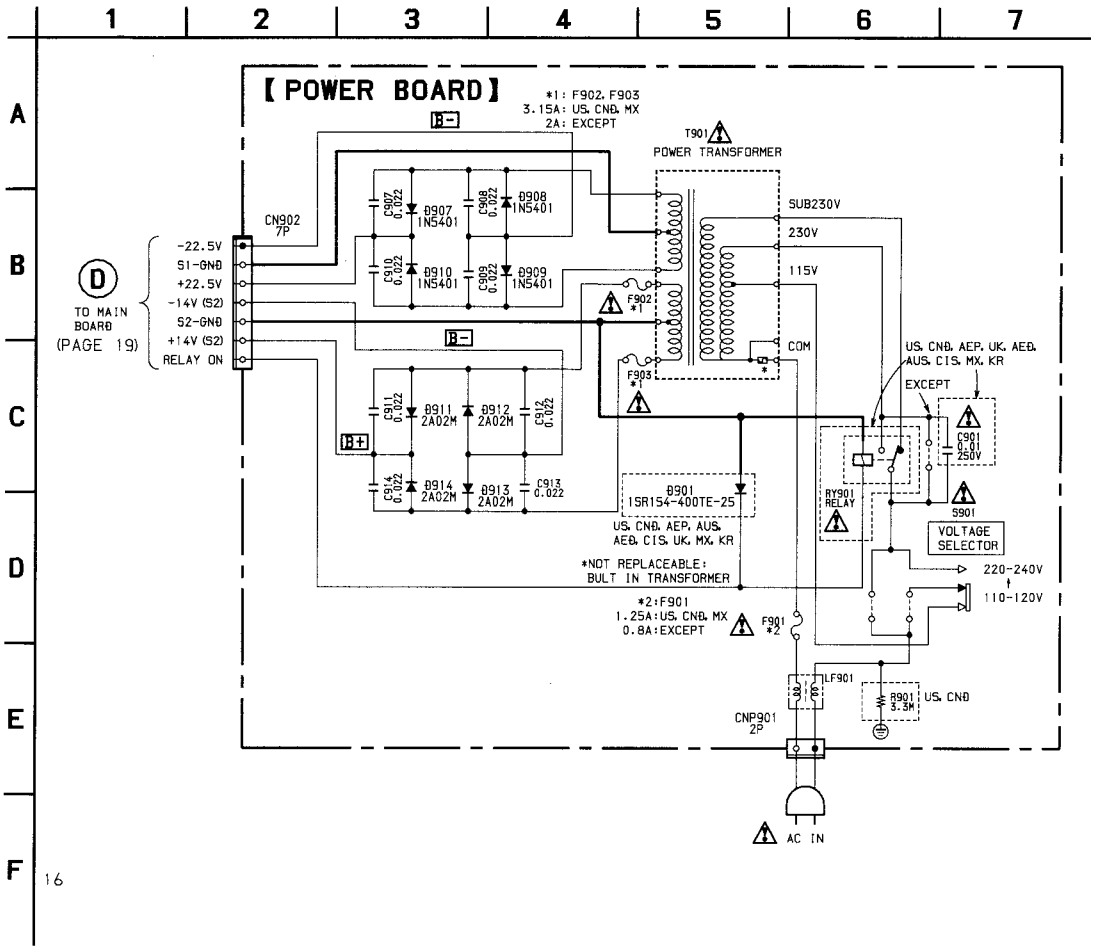
• See page 14 for Circuit Boards Location.

• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D901 | C-4 |
| D907 | D-5 |
| D908 | D-5 |
| D909 | D-4 |
| D910 | D-4 |
| D911 | C-6 |
| D912 | D-6 |
| D913 | D-6 |
| D914 | D-6 |



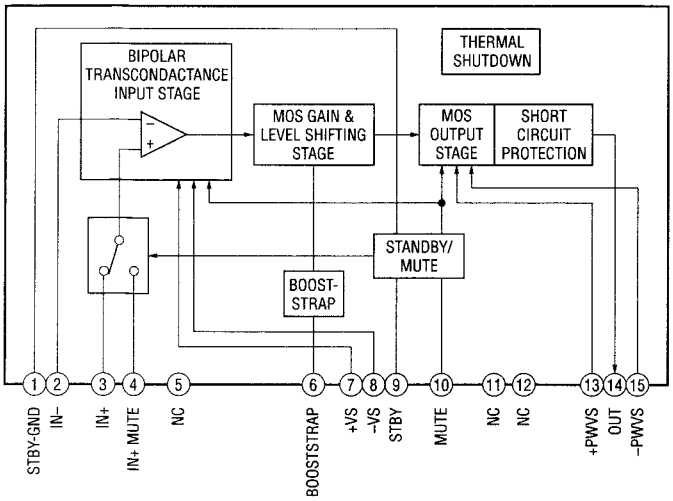
## 6-13. SCHEMATIC DIAGRAM – POWER Section –



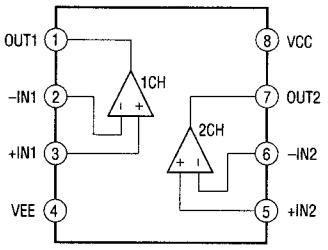
## 6-14. IC BLOCK DIAGRAMS

**– MAIN Board –**

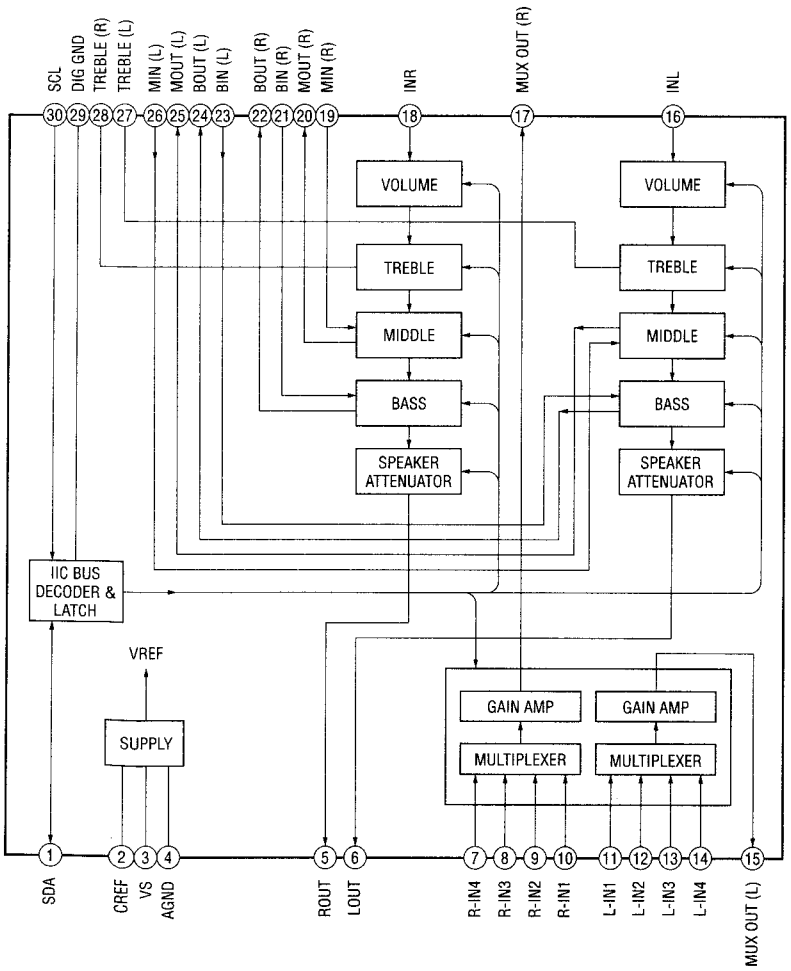
### IC101, 201 TDA7296



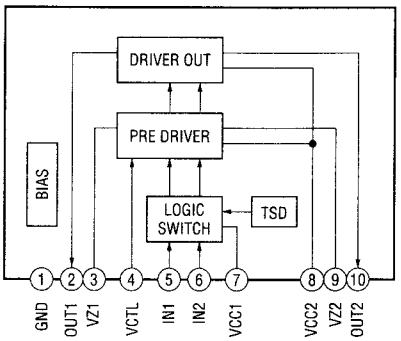

### IC303 NJM3414AM-TE2



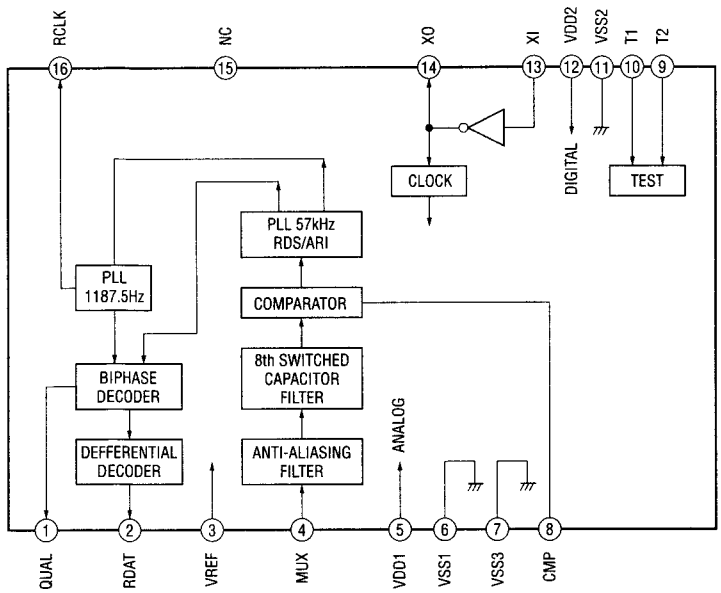

### IC301 TDA7439




### IC309 KA3082



**IC804 BU1924F-E2**



## 6-15. IC PIN FUNCTION DESCRIPTION

### • MAIN BOARD IC801 CXP83124A-040Q (SYSTEM CONTROLLER, LCD DRIVER)

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | TAPE-END | I | Tape end detect sensor input terminal "H" input when the tape end detected |
| 2 | RDS-CLK | I | Serial data reading clock signal input from the RDS decoder (IC804)<br>(Used for the AEP and UK models only) |
| 3 | REMOCON | I | Sircs remote control signal input from the remote control receiver (IC802) |
| 4 | MOT-CON | O | Capstan/reel motor on/off control signal output terminal "H": motor on |
| 5 | SOL-CON | O | Trigger plunger on/off control signal output terminal "H": plunger on |
| 6 | T-MODE | I | Head position detect switch input terminal "L": forward direction, "H": reverse direction |
| 7 | REG-CON | O | Main system power supply on/off control signal output terminal "H": power on |
| 8 | CD-CLK | O | Serial data transfer clock signal output to DSP/SSP on the CD block (at CD function) |
| 9 | TUNED | I | Tuning detection signal input from the tuner pack "L": tuned |
| 10 | CD-DATA/<br>TU-DATA/<br>SDA | O | Serial data output to DSP/SSP on the CD block (at CD function)<br>PLL serial data output to PLL IC on the tuner pack (at tuner function)<br>$I^2C$ data output to the TDA7439 (IC301) (all functions) |
| 11 | CD-SQCK | O | Subcode Q data reading clock signal output to DSP on the CD block (at CD function) |
| 12 | CD-SQSO/<br>RDS-DATA | I | Subcode Q data input from DSP on the CD block (at CD function)<br>RDS serial data input from the RDS decoder (IC804) (at tuner function)<br>(RDS decoder: used for the AEP and UK models only) |
| 13 | TRAY-OPEN | O | Motor drive signal output to the disc tray open/close motor driver (IC309) "H" active *1 |
| 14 | CD-MUTE | O | Muting on/off control signal output to the CD block "H": muting on |
| 15 | TRAY-CLOSE | O | Motor drive signal output to the disc tray open/close motor driver (IC309) "H" active *1 |
| 16 | CD-SENSE1 | I | Internal status detection monitor input from CD block<br>(for FZC, DFCT1, TZC, etc.) (at CD function) |
| 17 | CD-XRST | O | Reset signal output to the CD block "L": reset |
| 18 | CD-SENSE2/<br>TU-COUNT | I | Internal status detection monitor input from the CD block<br>(for MIRR, DFCT2, etc.) (at CD function)<br>PLL count data input from PLL IC on the tuner pack (at tuner function) |
| 19 | CD-LATCH/<br>TU-CE | O | Serial data latch pulse output to DSP on the CD block (at CD function)<br>PLL serial chip enable signal output to PLL IC on the tuner pack (at tuner function) |
| 20 | JOG-B | I | Jog dial pulse input from the rotary encoder (RV801 VOLUME) (B phase input) |
| 21 | JOG-A | I | Jog dial pulse input from the rotary encoder (RV801 VOLUME) (A phase input) |
| 22 | AMP-MUTE | O | Muting on/off control signal output to the power amplifier (IC101, 201)<br>"H": muting on |
| 23 | AMP-STBY | O | Standby on/off control signal output to the power amplifier (IC101, 201)<br>"L": standby mode |
| 24 | VIDEO-ON | O | VIDEO/MD function control signal output terminal<br>"H": VIDEO/MD ("L" output when other functions) |
| 25 | TU-ON | O | Power supply on/off control signal output of the tuner pack (+10V)<br>LED drive signal output of the TUNER indicator (D855) "H": tuner power on (LED on) |
| 26 | D.S.G. | O | LED drive signal output of the DSG (Dynamic Sound Generator) indicator (D856)<br>"H": LED on |
| 27 | CD-SYNC | O | LED drive signal output of the CD SYNC indicator (D857) "H": LED on |
| 28 | SCK | O | Serial data transfer clock signal output to the TDA7439 (IC301) |
| 29 | TU-CLK | O | PLL serial data transfer clock signal output to PLL IC on the tuner pack (at tuner function) |

*1 Disc tray open/close motor control

| Mode / Terminal | Stop | Table In | Table Out | Brake |
|---|---|---|---|---|
| TRAY-OPEN (pin ⑬) | "L" | "L" | "H" | "H" |
| TRAY-CLOSE (pin ⑮) | "L" | "H" | "L" | "H" |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 30 | RDS-ON | O | Power supply on/off control signal output of the tuner pack (+7.5V) and RDS decoder (IC804) (RDS decoder: used for the AEP and UK models only)<br>LED drive signal output of the TUNER indicator (D855) "H": tuner power on (LED on) |
| 31 | HP-CHK | I | Headphone check detection signal input terminal |
| 32 | TC-SW | I | Half detect (side A and B) switch and cassette in detect switch input terminal (A/D input) |
| 33 | TRAY-SW | I | Disc tray position detect switch (S901, 902) input terminal (A/D input)<br>"L": close position, "M": open position, "H": moving |
| 34 | KEY3 | I | Key input terminal (A/D input) S817 to S822, S824 and S825 (STANDBY I/⏻, CD, TUNER, TAPE, MD/VIDEO, DSG, TUNER BAND, CD SYNC keys input) |
| 35 | KEY2 | I | Key input terminal (A/D input) S801 to S808 (TUNING MODE, CD ▶II/■/▶▶I/I◀◀, PLAY MODE, REPEAT, CD EJECT ⏏ keys input) |
| 36 | KEY1 | I | Key input terminal (A/D input)<br>S809 to S816 (TAPE ◀◀ ▶▶/■/▶▶/◀◀/II, REC ●, TUNING +/– keys input) |
| 37 | SIMUKE | I | Destination setting terminal (A/D input) |
| 38 | $\overline{\text{RESET}}$ | I | System reset signal input from the reset signal generator (IC803) "L": reset<br>For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H" |
| 39 | EXTAL1 | I | Main system clock input terminal (4.19 MHz) |
| 40 | XTAL1 | O | Main system clock output terminal (4.19 MHz) |
| 41 | VSS | — | Ground terminal |
| 42 | XTAL2 | O | Sub system clock output terminal (500 kHz) Not used (open) |
| 43 | EXTAL2 | I | Sub system clock input terminal (500 kHz) Not used (fixed at "L") |
| 44 | AVREF | I | Reference voltage (+5V) input terminal (for A/D conversion) |
| 45 | AVSS | — | Ground terminal (for A/D conversion) |
| 46 | VL | O | Liquid crystal display bias on/off control signal output terminal |
| 47 to 49 | VLC3 to VLC1 | — | Power supply terminal for the liquid crystal display bias |
| 50 to 53 | COM0 to COM3 | O | Common drive signal output to the liquid crystal display (LCD801) |
| 54 to 85 | SEG0 to SEG31 | O | Segment drive signal output to the liquid crystal display (LCD801) |
| 86 | REC-BIAS | O | Recording bias on/off selection signal output to the HA12203NT (IC352)<br>"L": bias on, "H": bias off |
| 87 | REC-MUTE | O | Recording muting on/off selection signal output to the HA12203NT (IC352)<br>"L": muting on, "H": muting off |
| 88 | DOLBY | O | Dolby NR on/off selection signal output to the HA12203NT (IC352)<br>"L": dolby on, "H": dolby off |
| 89 | VDD | — | Power supply terminal (+5V) |
| 90 | NC | — | Connected to power supply (+5V) |
| 91 | VSS | — | Ground terminal |
| 92 | TX | O | Sub system clock output terminal (32.768 kHz) |
| 93 | TEX | I | Sub system clock input terminal (32.768 kHz) |
| 94 | CD-ON | O | Power supply on/off control signal output of the CD block (+5V)<br>LED drive signal output of the CD indicator (D852) "H": CD power on (LED on) |
| 95 | REC/PB | O | Recording/playback selection signal output to the BA3126N (IC350) and HA12203NT (IC352)<br>"L": playback mode, "H": recording mode |
| 96 | L-MUTE | O | Line muting on/off selection signal output to the HA12203NT (IC352)<br>"L": muting on, "H": muting off |
| 97 | LINE OUT-MUTE | O | Muting on/off control signal output terminal "H": muting on |
| 98 | TC-ON | O | Power supply on/off control signal output of the cassette holder back light<br>LED drive signal output of the TAPE indicator (D854) "H": back light on (LED on) |
| 99 | WP | I | Wakeup control signal input terminal |
| 100 | CD-SCOR | I | Subcode sync (S0+S1) detection signal input from DSP on the CD block (at CD function) |

# SECTION 7
# EXPLODED VIEWS

NOTE:

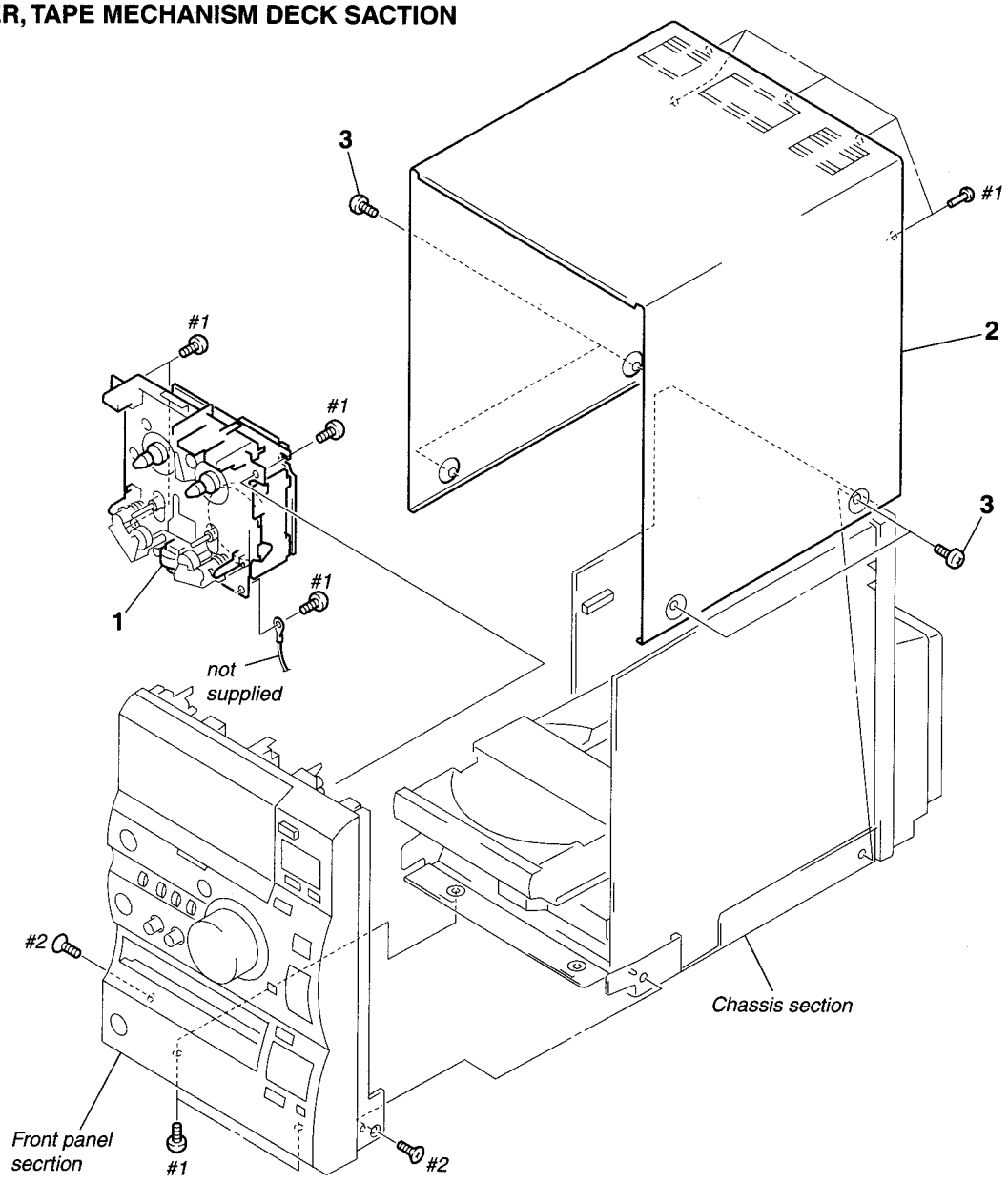
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- Abbreviation
  - EA : Saudi Arabia model.
  - AUS : Australian model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - TW : Taiwan model.
  - HK : Hong Kong model.
  - AR : Argentine model.
  - CND : Canadian model.
  - AED : North European model.
  - MX : Mexican model.
  - KR : Korean model.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

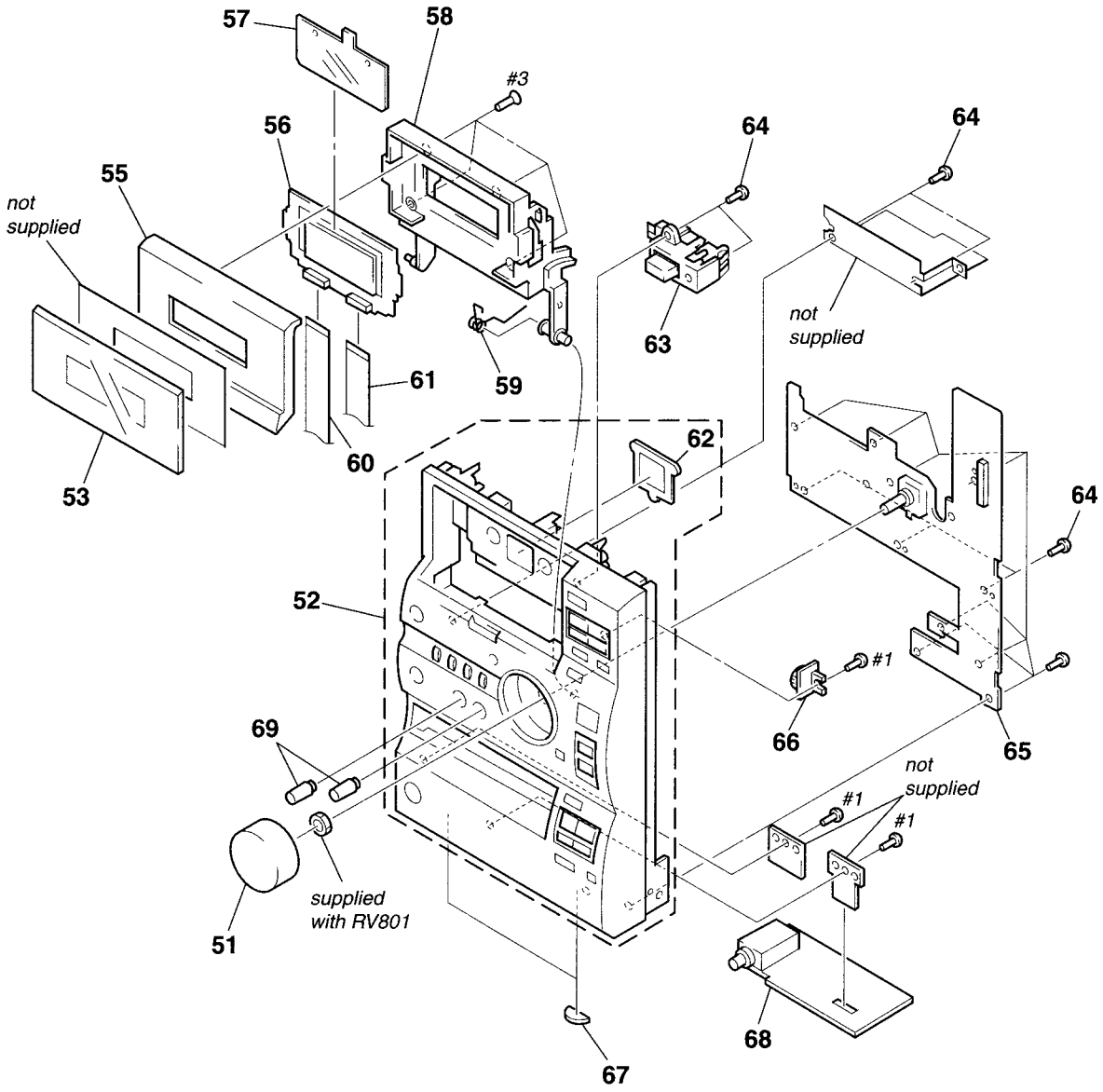
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

## 7-1. COVER, TAPE MECHANISM DECK SACTION




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 1 | 1-772-001-11 | DECK,MECHANICAL (TAPE DECK BLOCK) | |
| 2 | 4-217-341-21 | COVER(UPPER) | |
| 3 | 4-221-580-01 | SCREW, CASE | |

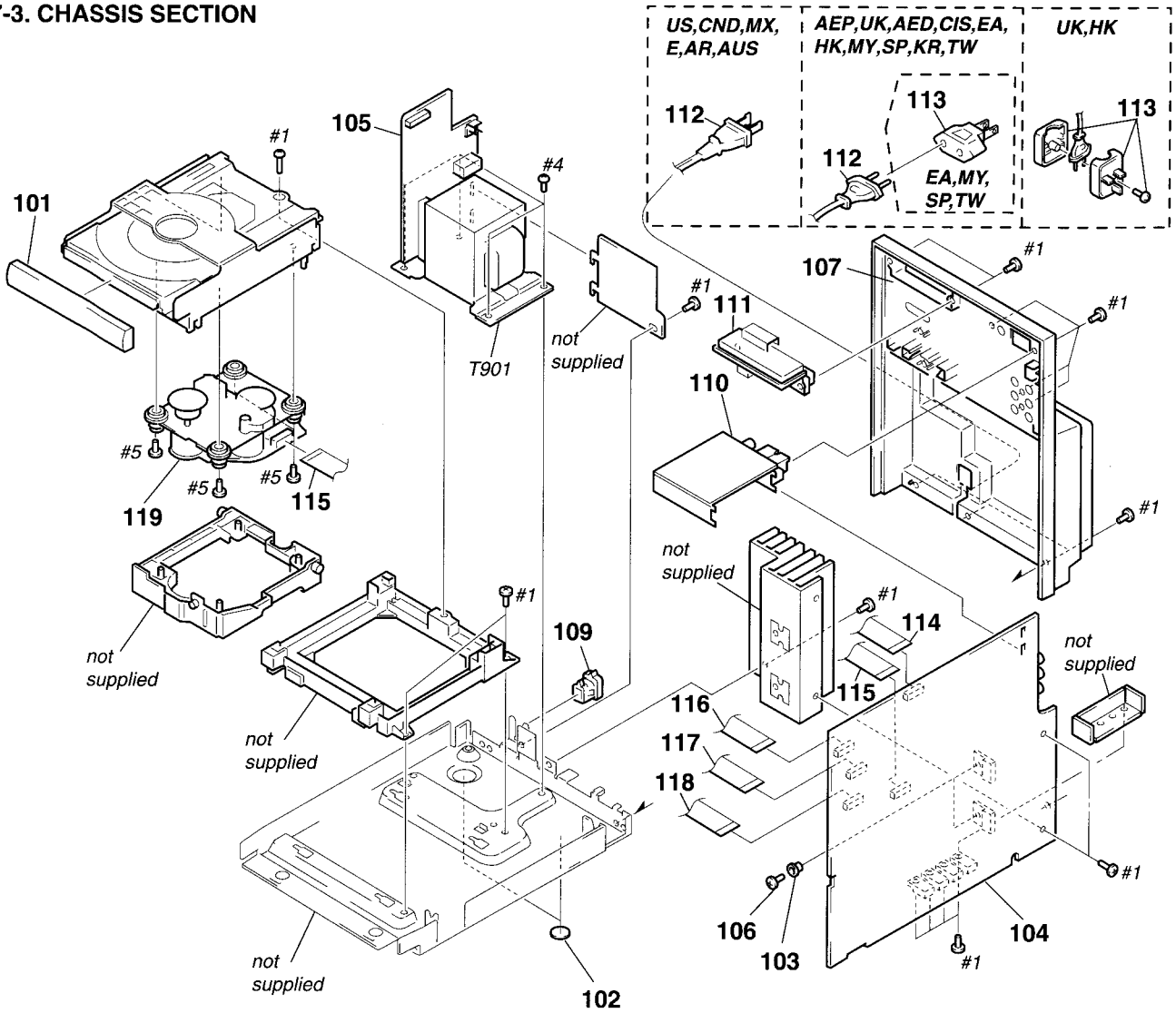
## 7-2. FRONT PANEL SACTION




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 51 | X-4952-336-1 | KNOB ASSY | |
| 52 | X-4952-728-1 | PANEL SUB ASSY, FRONT (AEP,AED,CIS,UK) | |
| 52 | X-4952-896-1 | PANEL SUB ASSY, FRONT (US,CND,MX,E,EA,AR,HK,MY,SP,TW,AUS) | |
| 52 | X-4953-006-1 | PANEL SUB ASSY, FRONT (KR) | |
| 53 | 4-227-956-01 | WINDOW (CASSETTE) | |
| 55 | 4-217-316-01 | LID,CASSETTE | |
| 56 | 1-678-282-11 | LCD BOARD | |
| 57 | 4-217-319-01 | PLATE, LCD LIGHT | |
| 58 | 4-217-317-01 | HOLDER (CASSETTE) | |
| 59 | 4-217-345-01 | SPRING, CASSETTE (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 59 | 4-229-069-01 | SPRING, CASSETTE (AEP,AED,CIS,UK) | |
| 60 | 1-792-413-11 | WIRE(FLAT TYPE) 18CORE | |
| 61 | 1-792-413-11 | WIRE(FLAT TYPE) 20CORE | |
| 62 | 4-217-320-01 | PLATE, BACK LIGHT | |
| 63 | X-4951-107-1 | LOCK(EJECT) ASSY | |
| 64 | 4-931-757-31 | SCREW(DIA.2.6X8)(IT3B),TAPPING | |
| 65 | A-4428-915-A | CONTROL BOARD, COMPLETE | |
| 66 | 3-351-377-11 | GEAR, DAMPER | |
| 67 | 4-218-204-01 | FOOT(FRONT) | |
| 68 | 1-677-147-11 | HEADPHONE BOARD | |
| 69 | 4-227-282-01 | KNOB(BASS) | |

## 7-3. CHASSIS SECTION

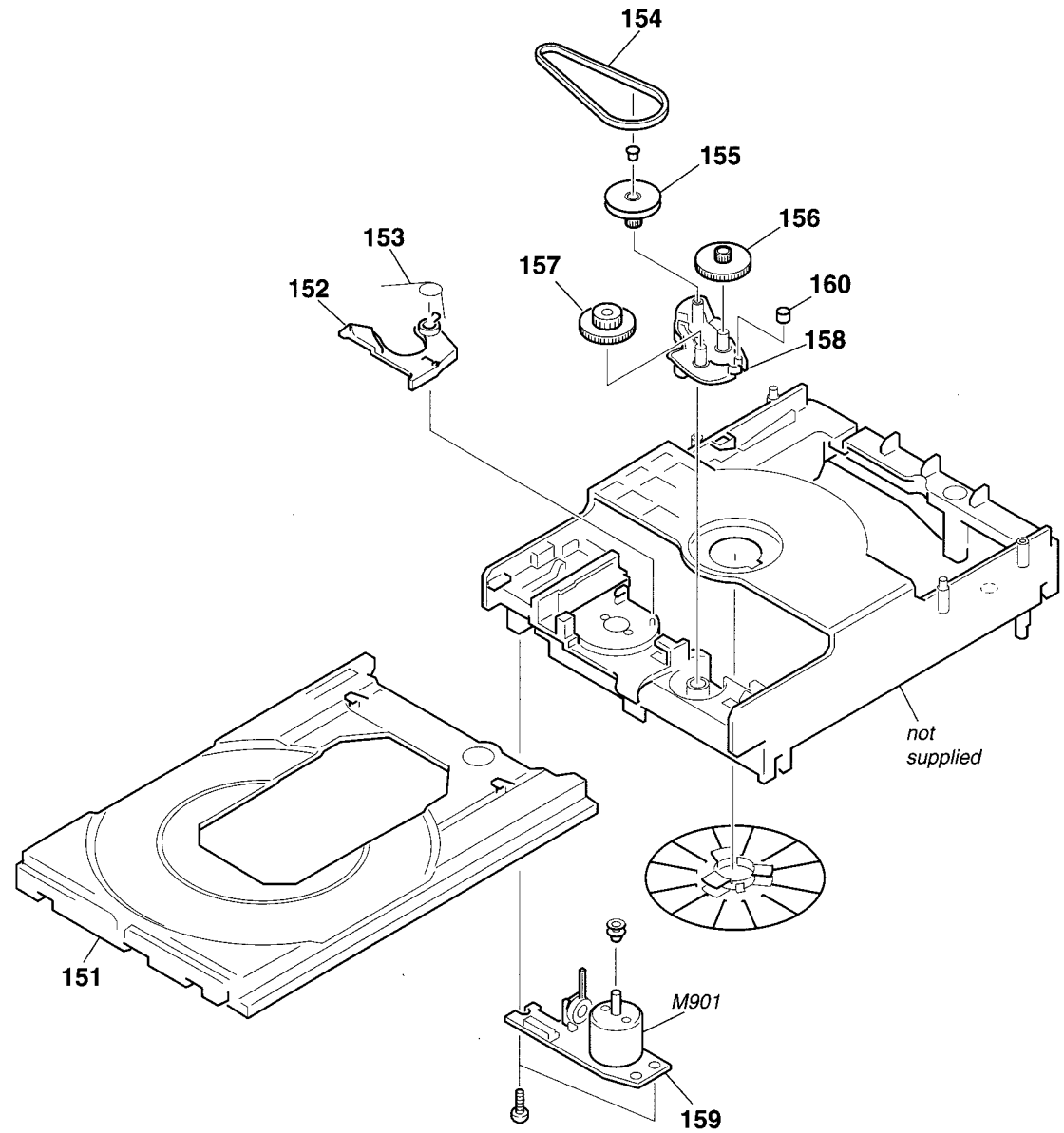



| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 101 | 4-227-281-01 | LID(CD) | |
| 102 | 4-217-355-01 | FOOT | |
| * 103 | 4-217-354-01 | BUSHING, INSULATING | |
| 104 | A-4428-920-A | MAIN BOARD, COMPLETE (AEP,AED,CIS,UK) | |
| 104 | A-4473-503-A | MAIN BOARD, COMPLETE (MX) | |
| 104 | A-4473-505-A | MAIN BOARD, COMPLETE (US,CND) | |
| 104 | A-4473-507-A | MAIN BOARD, COMPLETE (EA,HK,MY,SP,TW) | |
| 104 | A-4473-512-A | MAIN BOARD, COMPLETE (AUS) | |
| 104 | A-4473-513-A | MAIN BOARD, COMPLETE (E,AR) | |
| 104 | A-4473-652-A | MAIN BOARD, COMPLETE (KR) | |
| 105 | 1-677-145-11 | POWER BOARD (AEP,AED,CIS,UK,AUS) | |
| 105 | 1-677-145-21 | POWER BOARD (E,EA,AR,HK,MY,SP,TW) | |
| 105 | 1-677-145-31 | POWER BOARD (US,CND,MX) | |
| 105 | 1-677-145-41 | POWER BOARD (KR) | |
| 106 | 4-931-757-31 | SCREW(DIA.2.6X8)(IT3B),TAPPING | |
| 107 | 4-227-293-01 | PANEL, BACK (AEP,AED,CIS,UK) | |
| 107 | 4-227-293-11 | PANEL, BACK (US,CND,MX,KR) | |
| 107 | 4-227-293-21 | PANEL, BACK (E,EA,AR,HK,MY,SP,TW) | |
| 107 | 4-227-293-41 | PANEL, BACK (AUS) | |
| 109 | 4-217-350-01 | STOPPER, CORD (US,CND,MX,E,EA,AR,MY,SP,KR,AUS) | |
| 109 | 4-217-350-11 | STOPPER, CORD (AEP,AED,CIS,UK,HK,TW) | |
| 110 | A-4303-600-A | TUNER BLOCK (AED,CIS,AUS) | |
| 110 | A-4303-604-A | TUNER BLOCK (MX,E,EA,AR,HK,MY,SP,KR,TW) | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 110 | A-4303-605-A | TUNER BLOCK(US,CND) | |
| 110 | A-4303-600-A | TUNER BLOCK(AEP,UK) | |
| 111 | 1-677-146-11 | SPEAKER BOARD | |
| ⚠112 | 1-696-169-11 | CORD, POWER (AEP,AED,CIS,UK,EA,HK,MY,SP,TW) | |
| ⚠112 | 1-696-848-41 | CORD, POWER (AUS) | |
| ⚠112 | 1-769-079-21 | CORD, POWER (KR) | |
| ⚠112 | 1-775-789-91 | CORD, POWER (MX,E) | |
| ⚠112 | 1-783-820-11 | CORD, POWER (US,CND) | |
| ⚠112 | 1-783-941-21 | CORD, POWER (AR) | |
| ⚠113 | 1-770-019-11 | ADAPTOR, CONVERSION PLUG 3P (UK,HK) | |
| ⚠113 | 1-569-008-21 | ADAPTOR, CONVERSION PLUG 2P (EA,MY,SP,TW) | |
| 114 | 1-792-409-11 | WIRE (FLAT TYPE) 21CORE | |
| 115 | 1-792-411-11 | WIRE (FLAT TYPE) 19CORE | |
| 116 | 1-792-412-11 | WIRE (FLATTYPE) 20CORE | |
| 117 | 1-172-413-11 | WIRE (FLATTYPE) 18CORE | |
| 118 | 1-792-410-11 | WIRE (FLAT TYPE) 23CORE | |
| 119 | A-4677-289-A | CD BLOCK | |
| ⚠T901 | 1-435-101-11 | TRANSFORMER, POWER (E,EA,AR,HK,MY,SP,TW) | |
| ⚠T901 | 1-435-385-11 | TRANSFORMER, POWER (US,CND,MX) | |
| ⚠T901 | 1-435-386-11 | TRANSFORMER, POWER (AEP,AED,CIS,UK,AUS,KR) | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

## 7-4. CD MECHANISM DECK SECTION




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 151 | 4-224-894-01 | TRAY | |
| 152 | 4-220-229-01 | LEVER (SW) | |
| 153 | 4-220-239-01 | SPRING, TORSION | |
| 154 | 4-221-816-01 | BELT (CDM55) | |
| 155 | 4-220-234-01 | PULLEY (LDG) | |
| 156 | 4-220-237-01 | GEAR (A) | |
| 157 | 4-220-238-01 | GEAR (B) | |
| 158 | 4-220-233-01 | CAM(CDM55) | |
| 159 | 1-676-599-11 | LOADING BOARD | |
| 160 | 4-221-815-01 | ROLLER | |
| M901 | 1-763-418-11 | MOTOR, DC | |

CONTROL

# SECTION 8
# ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- CAPACITORS:
  uF: μF
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA... , uPA... , μPA... ,
  uPB... , μPB... , uPC... , μPC... ,
  uPD..., μPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Abbreviation
  EA : Saudi Arabia model.
  AUS : Australian model.
  SP : Singapore model.
  MY : Malaysia model.
  TW : Taiwan model.
  HK : Hong Kong model.
  AR : Argentine model.
  CND : Canadian model.
  AED : North European model.
  MX : Mexican model.
  KR : Korean model.

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| | A-4428-915-A | CONTROL BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C601 | 1-124-259-11 | ELECT | 4.7uF | 20.00% 16V | |
| C602 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | 10.00% 50V | |
| | | < CONNECTOR > | | | |
| CN805 | 1-569-939-31 | SOCKET, CONNECTOR 23P | | | |
| | | < DIODE > | | | |
| D851 | 8-719-074-42 | DIODE SLR325VR-T31 (STANDBY) | | | |
| D852 | 8-719-074-40 | DIODE SLR325DU-T31 (CD) | | | |
| D853 | 8-719-074-40 | DIODE SLR325DU-T31 (MD/VIDEO) | | | |
| D854 | 8-719-074-40 | DIODE SLR325DU-T31 (TAPE) | | | |
| D855 | 8-719-074-40 | DIODE SLR325DU-T31 (TUNER) | | | |
| D856 | 8-719-074-42 | DIODE SLR325VR-T31 (DSG) | | | |
| D857 | 8-719-074-42 | DIODE SLR325VR-T31 (CD SYNC) | | | |
| D858 | 8-719-075-50 | DIODE SELS6B14C-TP5 (CD DISC) | | | |
| | | < IC > | | | |
| IC802 | 8-742-208-20 | IC SBX3076-01 (REMOTE CONTROL RECEIVER) | | | |
| | | < TRANSISTOR > | | | |
| Q852 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| Q853 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| Q854 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| Q855 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| Q856 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| Q857 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| Q858 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| Q859 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| | | < RESISTOR > | | | |
| R590 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R591 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R592 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R593 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R601 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R602 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R603 | 1-216-047-91 | RES-CHIP | 820 | 5% | 1/10W |
| R604 | 1-216-051-00 | METAL CHIP | 1.2K | 5% | 1/10W |
| R605 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R606 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R607 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R608 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R609 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R610 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R611 | 1-216-047-91 | RES-CHIP | 820 | 5% | 1/10W |
| R612 | 1-216-051-00 | METAL CHIP | 1.2K | 5% | 1/10W |
| R613 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R614 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R615 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R616 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R617 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R618 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R660 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R661 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R662 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W |
| R666 | 1-216-051-00 | METAL CHIP | 1.2K | 5% | 1/10W |
| R667 | 1-216-051-00 | METAL CHIP | 1.2K | 5% | 1/10W |
| R668 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R669 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R680 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R681 | 1-216-047-91 | RES-CHIP | 820 | 5% | 1/10W |
| R683 | 1-216-051-00 | METAL CHIP | 1.2K | 5% | 1/10W |
| R684 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R685 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R686 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R687 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R688 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| | | < VARIABLE RESISTOR > | | | |
| RV801 | 1-473-392-11 | ENCODER, ROTARY (VOLUME) | | | |
| RV802 | 1-418-859-11 | ENCODER, ROTARY (TREBLE) | | | |
| RV803 | 1-418-859-11 | ENCODER, ROTARY (BASS) | | | |
| | | < SWITCH > | | | |
| S801 | 1-571-760-11 | SWITCH, KEY BOARD (TUNING MODE) | | | |
| S802 | 1-571-760-11 | SWITCH, KEY BOARD (CD PLAY) | | | |
| S803 | 1-571-760-11 | SWITCH, KEY BOARD (CD STOP) | | | |
| S804 | 1-571-760-11 | SWITCH, KEY BOARD (CD FWD) | | | |
| S805 | 1-571-760-11 | SWITCH, KEY BOARD (CD REV) | | | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| S806 | 1-571-760-11 | SWITCH, KEY BOARD (CD PLAY MODE) | |
| S807 | 1-571-760-11 | SWITCH, KEY BOARD (CD REPEAT) | |
| S808 | 1-571-760-11 | SWITCH, KEY BOARD (CD EJECT) | |
| S809 | 1-571-760-11 | SWITCH, KEY BOARD (TAPE PLAY) | |
| S810 | 1-571-760-11 | SWITCH, KEY BOARD (TAPE STOP) | |
| S811 | 1-571-760-11 | SWITCH, KEY BOARD (TAPE FF) | |
| S812 | 1-571-760-11 | SWITCH, KEY BOARD (TAPE REW) | |
| S813 | 1-571-760-11 | SWITCH, KEY BOARD (TAPE PAUSE) | |
| S814 | 1-571-760-11 | SWITCH, KEY BOARD (TAPE REC) | |
| S815 | 1-571-760-11 | SWITCH, KEY BOARD (TUNING +) | |
| S816 | 1-571-760-11 | SWITCH, KEY BOARD (TUNING -) | |
| S817 | 1-571-760-11 | SWITCH, KEY BOARD (STANDBY) | |
| S818 | 1-571-760-11 | SWITCH, KEY BOARD (CD) | |
| S819 | 1-571-760-11 | SWITCH, KEY BOARD (TUNER) | |
| S820 | 1-571-760-11 | SWITCH, KEY BOARD (TAPE) | |
| S821 | 1-571-760-11 | SWITCH, KEY BOARD (MD/VIDEO) | |
| S822 | 1-571-760-11 | SWITCH, KEY BOARD (DSG) | |
| S823 | 1-571-760-11 | SWITCH, KEY BOARD (TUNER BAND) | |
| S824 | 1-571-760-11 | SWITCH, KEY BOARD (CD SYNC) | |
| ********** | | | |
| | 1-677-147-11 | HEADPHONE BOARD | |
| | | ********** | |
| | | < CAPACITOR > | |
| C132 | 1-124-584-00 | CAP, ELECT 100MF | |
| C134 | 1-163-037-11 | CAP, CERAMIC 22000PF B | (2012) |
| C232 | 1-124-584-00 | CAP, ELECT 100MF | |
| C234 | 1-163-037-11 | CAP, CERAMIC 22000PF B | (2012) |
| | | < TRANSISTOR > | |
| Q132 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q232 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| | | < JACK > | |
| J301 | 1-785-925-11 | JACK (PHONES) | |
| | | < COIL > | |
| L102 | 1-416-993-41 | INDUCTOR 1uH | |
| L202 | 1-416-993-41 | INDUCTOR 1uH | |
| L302 | 1-416-993-41 | INDUCTOR 1uH | |
| | | < RESISTOR > | |
| R128 | 1-216-019-00 | RES, CHIP 56 | (2012) |
| R228 | 1-216-019-00 | RES, CHIP 56 | (2012) |
| ********** | | | |
| | 1-678-282-11 | LCD BOARD | |
| | | ********* | |
| | | < CONNECTOR > | |
| CN801 | 1-785-950-11 | CONNECTOR, FFC/FPC 18P | |
| CN803 | 1-785-949-11 | CONNECTOR, FFC/FPC 20P | |
| | | < DIODE > | |
| D657 | 8-719-075-51 | DIODE SELS6B14C-LF62 (LCD BACK LIGHT) | |
| D658 | 8-719-075-51 | DIODE SELS6B14C-LF62 (LCD BACK LIGHT) | |
| D659 | 8-719-075-51 | DIODE SELS6B14C-LF62 (LCD BACK LIGHT) | |
| D660 | 8-719-075-51 | DIODE SELS6B14C-LF62 (LCD BACK LIGHT) | |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| | | < LIQUID CRYSTAL DISPLAY > | | | |
| LCD801 | 1-803-542-11 | DISPLAY PANEL, LIQUID CRYSTAL | | | |
| | | < RESISTOR > | | | |
| R647 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W F |
| R649 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W F |
| ********** | | | | | |
| | 1-676-599-11 | LOADING BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| * CN1 | 1-568-943-11 | PIN, CONNECTOR 5P | | | |
| | | < SWITCH > | | | |
| S1 | 1-771-799-11 | SWITCH, LEVER (SLIDE) | | | |
| ********** | | | | | |
| | A-4428-920-A | MAIN BOARD, COMPLETE (AEP,AED,CIS,UK) | | | |
| | | ********** | | | |
| | A-4473-503-A | MAIN BOARD, COMPLETE (MX) | | | |
| | | ********** | | | |
| | A-4473-505-A | MAIN BOARD, COMPLETE (US,CND) | | | |
| | | ********** | | | |
| | A-4473-513-A | MAIN BOARD, COMPLETE (E,AR) | | | |
| | | ********** | | | |
| | A-4473-507-A | MAIN BOARD, COMPLETE (EA,HK,MY,SP,TW) | | | |
| | | ********** | | | |
| | A-4473-512-A | MAIN BOARD, COMPLETE (AUS) | | | |
| | | ********** | | | |
| | A-4473-652-A | MAIN BOARD, COMPLETE (KR) | | | |
| | | ********** | | | |
| * | 4-217-354-01 | BUSHING, INSULATING | | | |
| | 4-931-757-31 | SCREW(DIA.2.6X8)(IT3B),TAPPING | | | |
| | 7-685-546-14 | SCREW+BTP 3X8 TYPE2 N-S | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C102 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C103 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C104 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C105 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C106 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C107 | 1-163-020-00 | CERAMIC CHIP | 0.0082uF | 10% | 50V (EA,HK,MY,SP,TW) |
| C107 | 1-163-022-00 | CERAMIC CHIP | 0.012uF | 10% | 50V (US,CND,E,MX,AR,AUS,KR) |
| C107 | 1-163-023-00 | CERAMIC CHIP | 0.015uF | 5% | 50V (AEP,UK,AED,CIS) |
| C109 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C110 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C111 | 1-163-023-00 | CERAMIC CHIP | 0.015uF | 5% | 50V |
| C112 | 1-163-023-00 | CERAMIC CHIP | 0.015uF | 5% | 50V |
| C113 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C114 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C115 | 1-163-014-00 | CERAMIC CHIP | 0.0027uF | 10.00% | 50V |
| C116 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C117 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C118 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C119 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |

# MAIN

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| C120 | 1-104-665-11 | ELECT | 100uF | 20.00% | 16V |
| C121 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C122 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C123 | 1-126-965-11 | ELECT | 22uF | 20.00% | 50V |
| C126 | 1-126-965-11 | ELECT | 22uF | 20.00% | 50V |
| C130 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C131 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C150 | 1-126-572-11 | ELECT | 4.7uF | 20.00% | 35V |
| C201 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C202 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C203 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C204 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C205 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C206 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C207 | 1-163-020-00 | CERAMIC CHIP | 0.0082uF | 10% | 50V (EA,HK,MY,SP,TW) |
| C207 | 1-163-022-00 | CERAMIC CHIP | 0.012uF | 10% | 50V (US,CND,E,MX,AR,AUS,KR) |
| C207 | 1-163-023-00 | CERAMIC CHIP | 0.015uF | 5% | 50V (AEP,UK,AED,CIS) |
| C209 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C210 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C211 | 1-163-023-00 | CERAMIC CHIP | 0.015uF | 5% | 50V |
| C212 | 1-163-023-00 | CERAMIC CHIP | 0.015uF | 5% | 50V |
| C213 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C214 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C215 | 1-163-014-00 | CERAMIC CHIP | 0.0027uF | 10.00% | 50V |
| C216 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C217 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C218 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C219 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C220 | 1-104-665-11 | ELECT | 100uF | 20.00% | 16V |
| C221 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C222 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C223 | 1-126-965-11 | ELECT | 22uF | 20.00% | 50V |
| C226 | 1-126-965-11 | ELECT | 22uF | 20.00% | 50V |
| C230 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C231 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C250 | 1-126-572-11 | ELECT | 4.7uF | 20.00% | 35V |
| C301 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C302 | 1-124-119-00 | ELECT | 330uF | 20% | 16V |
| C303 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C304 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C305 | 1-104-666-11 | ELECT | 220uF | 20.00% | 16V |
| C308 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C309 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C310 | 1-126-955-11 | ELECT | 4700uF | 20.00% | 35V |
| C311 | 1-126-955-11 | ELECT | 4700uF | 20.00% | 35V |
| C312 | 1-126-942-61 | ELECT | 1000uF | 20.00% | 25V |
| C313 | 1-126-944-11 | ELECT | 3300uF | 20.00% | 25V |
| C314 | 1-104-666-11 | ELECT | 220uF | 20.00% | 16V |
| C315 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C316 | 1-104-666-11 | ELECT | 220uF | 20.00% | 16V |
| C317 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C318 | 1-104-666-11 | ELECT | 220uF | 20.00% | 16V |
| C319 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C320 | 1-126-935-11 | ELECT | 470uF | 20.00% | 16V |
| C323 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C324 | 1-104-666-11 | ELECT | 220uF | 20.00% | 10V |
| C325 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C326 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C327 | 1-104-665-11 | ELECT | 100uF | 20.00% | 16V |
| C328 | 1-104-665-11 | ELECT | 100uF | 20.00% | 16V |
| C329 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C330 | 1-104-665-11 | ELECT | 100uF | 20.00% | 16V |
| C331 | 1-104-665-11 | ELECT | 100uF | 20.00% | 16V |
| C337 | 1-104-666-11 | ELECT | 220uF | 20.00% | 16V |
| C338 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C341 | 1-104-665-11 | ELECT | 100uF | 20.00% | 16V |
| C346 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C347 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C348 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C350 | 1-104-665-11 | ELECT | 100uF | 20.00% | 16V |
| C351 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C359 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C362 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C363 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C364 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| C365 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C367 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C368 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C390 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| C603 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V (AEP,AED,CIS,UK) |
| C604 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C605 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C651 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C652 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C801 | 1-163-102-00 | CERAMIC CHIP | 24PF | 5.00% | 50V |
| C802 | 1-163-102-00 | CERAMIC CHIP | 24PF | 5.00% | 50V |
| C803 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C804 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | 10.00% | 50V |
| C808 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | 10.00% | 50V |
| C809 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C810 | 1-128-647-11 | CAP, DOUBLE LAYER | | 0.1F | |
| C811 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C812 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5.00% | 50V |
| C813 | 1-163-135-00 | CERAMIC CHIP | 560PF | 5% | 50V (AEP,AED,CIS,UK) |
| C814 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V (AEP,AED,CIS,UK) |
| C815 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | 10.00% | 50V (AEP,AED,CIS,UK) |
| C816 | 1-163-096-00 | CERAMIC CHIP | 13PF | 5% | 50V (AEP,AED,CIS,UK) |
| C817 | 1-163-096-00 | CERAMIC CHIP | 13PF | 5% | 50V (AEP,AED,CIS,UK) |
| C818 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V (AEP,AED,CIS,UK) |
| C819 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V (AEP,AED,CIS,UK) |
| C820 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C821 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C822 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C823 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C824 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| C825 | 1-164-159-21 | CERAMIC 0.1uF | 50V |
| C827 | 1-163-005-11 | CERAMIC CHIP 470PF 10% | 50V |
| | | < CONNECTOR > | |
| * CN303 | 1-568-954-11 | PIN, CONNECTOR 5P | |
| * CN306 | 1-568-954-11 | PIN, CONNECTOR 5P | |
| * CN316 | 1-569-935-11 | SOCKET, CONNECTOR 19P | |
| CN401 | 1-569-937-11 | SOCKET, CONNECTOR 21P | |
| CN802 | 1-785-951-11 | CONNECTOR, FFC/FPC (ZIF) 18P | |
| CN804 | 1-785-952-11 | CONNECTOR, FFC/FPC (ZIF) 20P | |
| CN806 | 1-569-939-31 | SOCKET, CONNECTOR 23P | |
| * CN807 | 1-569-935-11 | SOCKET, CONNECTOR 19P | |
| * CN808 | 1-569-935-11 | SOCKET, CONNECTOR 19P | |
| | | < DIODE > | |
| D301 | 8-719-110-31 | DIODE MTZJ-T-77-12B | |
| D303 | 8-719-921-63 | DIODE MTZJ-T-77-7.5B | |
| D304 | 8-719-921-75 | DIODE MTZN-T-77-10B | |
| D305 | 8-719-109-89 | DIODE MTZJ-T-77-5.6B | |
| D306 | 8-719-110-03 | DIODE MTZJ-T-77-7.5C | |
| D307 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D308 | 8-719-982-11 | DIODE MTZJ-T-77-4.3B (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) | |
| D308 | 8-719-109-85 | DIODE MTZJ-T-77-5.1B (AEP,AED,CIS,UK) | |
| D309 | 8-719-110-08 | DIODE MTZJ-T-77-8.2B | |
| D311 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D313 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D350 | 8-719-110-31 | DIODE MTZJ-T-77-12B | |
| D390 | 8-719-200-82 | DIODE 11ES2-TA1B (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) | |
| D391 | 8-719-921-75 | DIODE MTZN-T-77-10B (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) | |
| D392 | 8-719-991-33 | DIODE 1SS133T-77 (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) | |
| D651 | 8-719-200-82 | DIODE 11ES2-TA1B | |
| D652 | 8-719-200-82 | DIODE 11ES2-TA1B | |
| D801 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D802 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D810 | 8-719-982-11 | DIODE MTZJ-T-77-4.3B (AEP,AED,CIS,UK) | |
| D812 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D813 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D814 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D815 | 8-719-991-33 | DIODE 1SS133T-77 | |
| | | < IC > | |
| IC101 | 8-759-584-38 | IC TDA7296 | |
| IC201 | 8-759-584-38 | IC TDA7296 | |
| IC301 | 8-759-585-01 | IC TDA7439 | |
| IC303 | 8-759-545-66 | IC NJM3414AM-TE2 | |
| IC304 | 8-759-584-41 | IC K1A7808PI | |
| IC305 | 8-759-584-40 | IC KA7908 | |
| IC307 | 8-759-909-71 | IC BA4558F-E2 | |
| IC308 | 8-749-921-12 | IC GP1F32T (CD DIGITAL OUT OPTICAL) | |
| IC309 | 8-759-584-65 | IC KA3082 | |
| IC310 | 8-759-324-40 | IC KIA7805PI | |
| IC311 | 8-759-584-41 | IC K1A7808PI | |
| IC801 | 8-752-898-87 | IC CXP83124A-040Q | |
| IC803 | 8-759-584-64 | IC BMR0301H | |
| IC804 | 8-759-557-36 | IC BU1924F-E2(AEP,AED,CIS,UK) | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| | | < COIL > | |
| L801 | 1-414-138-11 | INDUCTOR 0.33uH | |
| L802 | 1-414-138-11 | INDUCTOR 0.33uH | |
| | | < JACK > | |
| PJ301 | 1-785-926-11 | JACK, PIN 6P (LINE OUT/MD IN/VIDEO IN) | |
| | | < TRANSISTOR > | |
| Q101 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q102 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q103 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q106 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q111 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q201 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q202 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q203 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q206 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q211 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q301 | 8-729-019-00 | TRANSISTOR 2SD2394-G | |
| Q302 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q303 | 8-729-901-00 | TRANSISTOR DTC124EKA-T146 | |
| Q307 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | |
| Q308 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | |
| Q310 | 8-729-019-00 | TRANSISTOR 2SD2394-G | |
| Q311 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q312 | 8-729-901-00 | TRANSISTOR DTC124EKA-T146 | |
| Q313 | 8-729-028-54 | TRANSISTOR KTC3205-Y-AT | |
| Q314 | 8-729-028-54 | TRANSISTOR KTC3205-Y-AT | |
| Q315 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q316 | 8-729-901-00 | TRANSISTOR DTC124EKA-T146 | |
| Q317 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q318 | 8-729-901-00 | TRANSISTOR DTC124EKA-T146 | |
| Q321 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q322 | 8-729-901-00 | TRANSISTOR DTC124EKA-T146 | |
| Q323 | 8-729-801-84 | TRANSISTOR 2SB1013-TP-34 (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) | |
| Q324 | 8-729-901-00 | TRANSISTOR DTC124EKA-T146 (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) | |
| Q325 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q326 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | |
| Q350 | 8-729-019-00 | TRANSISTOR 2SD2394-G | |
| Q351 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q352 | 8-729-901-00 | TRANSISTOR DTC124EKA-T146 | |
| Q390 | 8-729-019-72 | TRANSISTOR 2SB1260T100 (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) | |
| Q391 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) | |
| Q392 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) | |
| Q651 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | |
| Q652 | 8-729-801-84 | TRANSISTOR 2SB1013-TP-34 | |
| Q653 | 8-729-801-84 | TRANSISTOR 2SB1013-TP-34 | |
| Q654 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | |
| Q655 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | |
| Q656 | 8-729-202-56 | TRANSISTOR 2SA950-Y-TPE2 | |
| Q657 | 8-729-202-56 | TRANSISTOR 2SA950-Y-TPE2 | |
| Q658 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | |
| Q659 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | |

# MAIN

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| Q661 | 8-729-040-76 | TRANSISTOR | KTA1273-Y-AT | | |
| Q662 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| Q803 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q805 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q806 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q808 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q809 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q810 | 8-729-120-28 | TRANSISTOR | 2SC2412K-T-146-R | | (AEP,AED,CIS,UK) |
| Q812 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q813 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q816 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | (AEP,AED,CIS,UK) |
| Q823 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q824 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q825 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q826 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q827 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q828 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | | |
| Q829 | 8-729-027-23 | TRANSISTOR | DTA114EKA-T146 | | |
| Q830 | 8-729-920-31 | TRANSISTOR | DTC343TK-T-146 | | |
| | | < RESISTOR > | | | |
| R102 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R103 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R105 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| R105 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W (AEP,AED,CIS,UK) |
| R106 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R107 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R108 | 1-216-072-00 | METAL CHIP | 9.1K | 5% | 1/10W |
| R109 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| R109 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W (AEP,AED,CIS,UK) |
| R110 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R111 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R112 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| R112 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W (AEP,AED,CIS,UK) |
| R113 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R114 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R115 | 1-216-067-00 | METAL CHIP | 5.6K | 5% | 1/10W |
| R116 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R117 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R118 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R119 | 1-216-051-00 | METAL CHIP | 1.2K | 5% | 1/10W (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| R119 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W (AEP,AED,CIS,UK) |
| R120 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R121 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R122 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R123 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R124 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R125 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W |
| R126 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R129 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R130 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R131 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R133 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R134 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R136 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R137 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R138 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R139 | 1-216-296-91 | SHORT | 0 | | |
| R202 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R203 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R205 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W (US,CND,MX,E,EA,AR,HK,MY,SP,TW,AUS,KR) |
| R205 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W (AEP,AED,CIS,UK) |
| R206 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R207 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R208 | 1-216-072-00 | METAL CHIP | 9.1K | 5% | 1/10W |
| R209 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| R209 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W (AEP,AED,CIS,UK) |
| R210 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R211 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R212 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| R212 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W (AEP,AED,CIS,UK) |
| R213 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R214 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R215 | 1-216-067-00 | METAL CHIP | 5.6K | 5% | 1/10W |
| R216 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R217 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R218 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R219 | 1-216-051-00 | METAL CHIP | 1.2K | 5% | 1/10W (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| R219 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W (AEP,AED,CIS,UK) |
| R220 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R221 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R222 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R223 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R224 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R225 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W |
| R226 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R229 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R230 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R231 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R233 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R234 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R236 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R237 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R238 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R239 | 1-216-296-91 | SHORT | 0 | | |
| R301 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W (EA,HK,MY,SP,TW) |
| R301 | 1-216-047-91 | RES-CHIP | 820 | 5% | 1/10W (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| R303 | 1-216-035-00 | METAL CHIP | 270 | 5% | 1/10W |
| R306 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R307 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R308 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R309 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R310 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R311 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R314 | 1-216-047-91 | RES-CHIP | 820 | 5% | 1/10W |
| R316 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R317 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R321 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R325 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R325 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R326 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R350 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W |
| | | | | | (EA,HK,MY,SP,TW) |
| R350 | 1-216-047-91 | RES-CHIP | 820 | 5% | 1/10W |
| | | | | | (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| R351 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R352 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| | | | | | (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| R391 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R392 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| | | | | | (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| R393 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| | | | | | (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| R394 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| | | | | | (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| R395 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| | | | | | (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| R397 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| | | | | | (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| R398 | 1-216-105-91 | RES-CHIP | 220K | 5% | 1/10W |
| | | | | | (US,CND,AEP,UK,E,AED,CIS,MX,AR,AUS,KR) |
| R622 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R624 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R627 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R628 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R629 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| | | | | | (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| R629 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| | | | | | (AEP,AED,CIS,UK) |
| R630 | 1-216-027-00 | METAL CHIP | 120 | 5% | 1/10W |
| R631 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R633 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R637 | 1-216-035-00 | METAL CHIP | 270 | 5% | 1/10W |
| | | | | | (AEP,AED,CIS,UK) |
| R638 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R639 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R650 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R651 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R652 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R653 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R654 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R655 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R656 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R657 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W |
| R658 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R659 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R670 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| | | | | | (AEP,AED,CIS,UK) |
| R671 | 1-216-113-00 | METAL CHIP | 470K | 5% | 1/10W |
| | | | | | (AEP,AED,CIS,UK) |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R672 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| | | | | | (AEP,AED,CIS,UK) |
| R673 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| | | | | | (AEP,AED,CIS,UK) |
| R674 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| | | | | | (AEP,AED,CIS,UK) |
| R675 | 1-216-093-91 | RES-CHIP | 68K | 5% | 1/10W |
| | | | | | (AEP,AED,CIS,UK) |
| R691 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R692 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R800 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R801 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R802 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R803 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R804 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R805 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R806 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R807 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R808 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R809 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R810 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R811 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R812 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R813 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R814 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R815 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R816 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R817 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R818 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R819 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R820 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R821 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R822 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R823 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R824 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R825 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R826 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R827 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R828 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R829 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R830 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R831 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R832 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R833 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R834 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R835 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R836 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R837 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R838 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R839 | 1-216-013-00 | METAL CHIP | 33 | 5% | 1/10W |
| R840 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R841 | 1-216-295-91 | SHORT | 0 | | |
| | | | | | (US,CND,E,AR,AUS) |
| R841 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| | | | | | (AEP,UK,AED,CIS) |
| R841 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| | | | | | (EA,HK,MY,SP,TW) |

# MAIN POWER

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R841 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W (MX) |
| R841 | 1-216-275-91 | RES-CHIP | 1.6M | 5% | 1/10W (KR) |
| R842 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R844 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R846 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R847 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R848 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R849 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R850 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R851 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R852 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R853 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R854 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R855 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R856 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R857 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R858 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R859 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R860 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R861 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R862 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R863 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R864 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R865 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R866 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R867 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R868 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R869 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R870 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R871 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R872 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R873 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R874 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R875 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R876 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R877 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R878 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R879 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R880 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R881 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R882 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R883 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R884 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R885 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R886 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R887 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R888 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R889 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R890 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R891 | 1-216-067-00 | METAL CHIP | 5.6K | 5% | 1/10W |
| R892 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R894 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R895 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R896 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W (US,CND,MX,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| R896 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W (AEP,AED,CIS,UK) |
| R897 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R898 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R899 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |

< VIBRATOR >

| | | | | | |
|---|---|---|---|---|---|
| X801 | 1-767-184-11 | VIBRATOR, CERAMIC 4.19MHz | | | |
| X802 | 1-567-098-41 | VIBRATOR, CRYSTAL 32.768KHz | | | |
| X803 | 1-579-242-41 | VIBRATOR, CRYSTAL 4.332MHz | | | (AEP,AED,CIS,UK) |

**********

| | | | | | |
|---|---|---|---|---|---|
| | 1-677-145-11 | POWER BOARD (AEP,AED,CIS,UK,AUS) | | | |
| | | ********** | | | |
| | 1-677-145-21 | POWER BOARD (E,EA,AR,HK,MY,SP,TW) | | | |
| | | ********** | | | |
| | 1-677-145-31 | POWER BOARD (US,CND,MX) | | | |
| | | ********** | | | |
| | 1-677-145-41 | POWER BOARD (KR) | | | |
| | | ********** | | | |
| | 1-533-313-11 | HOLDER, FUSE | | | |

< CAPACITOR >

| | | | | | |
|---|---|---|---|---|---|
| ⚠C901 | 1-113-925-11 | CERAMIC | 0.01uF | 20.00% | 250V (AEP,AED,CIS,US,CND,UK,MX,AUS,KR) |
| C907 | 1-101-005-00 | CERAMIC | 22000PF | | 50V |
| C908 | 1-101-005-00 | CERAMIC | 22000PF | | 50V |
| C909 | 1-101-005-00 | CERAMIC | 22000PF | | 50V |
| C910 | 1-101-005-00 | CERAMIC | 22000PF | | 50V |
| C911 | 1-163-063-91 | CERAMIC CHIP | 0.022uF | 10.00% | 50V |
| C912 | 1-163-063-91 | CERAMIC CHIP | 0.022uF | 10.00% | 50V |
| C913 | 1-163-063-91 | CERAMIC CHIP | 0.022uF | 10.00% | 50V |
| C914 | 1-163-063-91 | CERAMIC CHIP | 0.022uF | 10.00% | 50V |

< CONNECTOR >

| | | | | | |
|---|---|---|---|---|---|
| CN902 | 1-766-280-11 | PIN, CONNECTOR (PC BOARD) 7P | | | |

< CONNECTOR >

| | | | | | |
|---|---|---|---|---|---|
| CNP901 | 1-564-321-00 | PIN, CONNECTOR 2P | | | |

< DIODE >

| | | | | | |
|---|---|---|---|---|---|
| D901 | 8-719-053-18 | DIODE 1SR154-400TE-25 | | | (AEP,AED,CIS,US,CND,UK,MX,AUS,KR) |
| D907 | 8-719-902-17 | DIODE 1N5401 | | | |
| D908 | 8-719-902-17 | DIODE 1N5401 | | | |
| D909 | 8-719-902-17 | DIODE 1N5401 | | | |
| D910 | 8-719-902-17 | DIODE 1N5401 | | | |
| D911 | 8-719-046-07 | DIODE 2A02M | | | |
| D912 | 8-719-046-07 | DIODE 2A02M | | | |
| D913 | 8-719-046-07 | DIODE 2A02M | | | |
| D914 | 8-719-046-07 | DIODE 2A02M | | | |

< FUSE >

| | | | | | |
|---|---|---|---|---|---|
| ⚠F901 | 1-533-464-11 | FUSE, GLASS TUBE (DIA. 5) | 0.8A | | (AEP,AED,CIS,UK,E,EA,AR,HK,MY,SP,KR,TW,AUS) |
| ⚠F901 | 1-576-374-11 | FUSE, GLASS TUBE 1.25A (US,CND,MX) | | | |
| ⚠F902 | 1-533-468-11 | FUSE, GLASS TUBE (DIA. 5) 2A | | | (AEP,AED,CIS,UK,E,EA,AR,HK,MY,SP,KR,TW,AUS) |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| ⚠F902 | 1-576-375-11 | FUSE, GLASS TUBE 3.15A (US,CND,MX) | | | |
| ⚠F903 | 1-533-468-11 | FUSE, GLASS TUBE (DIA. 5) 2A (AEP,AED,CIS,UK,E,EA,AR,HK,MY,SP,KR,TW,AUS) | | | |
| ⚠F903 | 1-576-375-11 | FUSE, GLASS TUBE 3.15A (US,CND,MX) | | | |
| | | < RESISTOR > | | | |
| ⚠R901 | 1-202-725-00 | SOLID | 3.3M | 10% | 1/2W (US,CND) |
| | | < RELAY > | | | |
| ⚠RY901 | 1-755-386-11 | RELAY, POWER (US,CND,AEP,AED,CIS,UK,AUS,MX,KR) | | | |
| | | < SWITCH > | | | |
| ⚠S901 | 1-552-921-00 | SWITCH, POWER (VOLTAGE SELECTOR)(E,EA,AR,HK,MY,SP,TW) | | | |
| | | < TRANSFORMER > | | | |
| ⚠T901 | 1-435-386-11 | TRANSFORMER, POWER (AEP,AED,CIS,UK,AUS,KR) | | | |
| ⚠T901 | 1-435-385-11 | TRANSFORMER, POWER (US,CND,MX) | | | |
| ⚠T901 | 1-435-101-11 | TRANSFORMER, POWER (E,EA,AR,HK,MY,SP,TW) | | | |
| ********** | | | | | |
| | 1-677-146-11 | SPEAKER BOARD ********** | | | |
| | | < CAPACITOR > | | | |
| C127 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V |
| C133 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V |
| C227 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V |
| C233 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V |
| | | < CONNECTOR > | | | |
| * CN301 | 1-573-455-11 | PLUG, CONNECTOR (2.5MM) 4P | | | |
| | | < COIL > | | | |
| L101 | 1-420-872-00 | COIL, AIR-CORE | | | |
| L201 | 1-420-872-00 | COIL, AIR-CORE | | | |
| | | < RESISTOR > | | | |
| R127 | 1-216-150-91 | RES-CHIP | 10 | 5% | 1/8W |
| R141 | 1-216-150-91 | RES-CHIP | 10 | 5% | 1/8W |
| R227 | 1-216-150-91 | RES-CHIP | 10 | 5% | 1/8W |
| R241 | 1-216-150-91 | RES-CHIP | 10 | 5% | 1/8W |

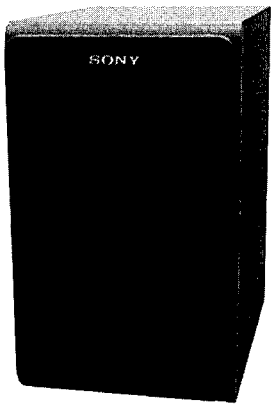
| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| | | < TERMINAL > | |
| * SJ301 | 1-536-708-41 | TERMINAL BOARD, PUSH 4P (SPEAKER) | |
| ********** | | | |
| | | MISCELLANEOUS ********** | |
| 1 | 1-772-001-11 | DECK,MECHANICAL (TAPE DECK BLOCK) | |
| 60 | 1-792-413-11 | WIRE(FLAT TYPE) 18CORE | |
| 61 | 1-792-413-11 | WIRE(FLAT TYPE) 20CORE | |
| ⚠112 | 1-696-169-11 | CORD, POWER (AEP,AED,CIS,UK,EA,HK,MY,SP,TW) | |
| ⚠112 | 1-696-848-41 | CORD, POWER (AUS) | |
| ⚠112 | 1-769-079-21 | CORD, POWER (KR) | |
| ⚠112 | 1-775-789-91 | CORD, POWER (MX,E) | |
| ⚠112 | 1-783-820-11 | CORD, POWER (US,CND) | |
| ⚠112 | 1-783-941-21 | CORD, POWER (AR) | |
| ⚠113 | 1-770-019-11 | ADAPTOR, CONVERSION PLUG 3P (UK,HK) | |
| ⚠113 | 1-569-008-21 | ADAPTOR, CONVERSION PLUG 2P (EA,MY,SP,TW) | |
| 114 | 1-792-409-11 | WIRE (FLAT TYPE) 21CORE | |
| 115 | 1-792-411-11 | WIRE (FLAT TYPE) 19CORE | |
| 116 | 1-792-412-11 | WIRE(FLATTYPE) 20CORE | |
| 117 | 1-792-413-11 | WIRE(FLATTYPE) 18CORE | |
| 118 | 1-792-410-11 | WIRE (FLAT TYPE) 23CORE | |
| ⚠T901 | 1-435-101-11 | TRANSFORMER, POWER (E,EA,AR,HK,MY,SP,TW) | |
| ⚠T901 | 1-435-385-11 | TRANSFORMER, POWER (US,CND,MX) | |
| ⚠T901 | 1-435-386-11 | TRANSFORMER, POWER (AEP,AED,CIS,UK,AUS,KR) | |
| ********** | | | |
| | | ********** HARDWARE LIST ********** | |
| #1 | 7-685-546-14 | SCREW +BTP 3X8 TYPE2 N-S | |
| #2 | 7-685-245-19 | SCREW +KTP 3X6 TYPE2 NON-SLIT | |
| #3 | 7-685-246-14 | SCREW +KTP 3X8 TYPE2 NON-SLIT | |
| #4 | 7-685-659-14 | SCREW +BVTP 4X8 TYPE2 N-S | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

# SS-CCP11

# SERVICE MANUAL

*US Model*
*Canadian Model*
*AEP Model*
*UK Morel*
*E Model*
*Australian Model*




- SS-CCP11 is the speaker system in CMT-CP11/CP11K.

## SPECIFICATIONS

| | |
|---|---|
| Speaker system | 2-way, bass-reflex type |
| Speaker units | |
| Woofer: | 12 cm dia. cone type |
| Tweeter: | 2.5 cm dia. cone type |
| Normal impedance | 6 ohms |
| Dimensions (w/h/d) | Approx. 150 × 252 × 252 mm incl. projecting parts and controls |
| Mass | Approx. 2.6kg net per speaker |

Design and specifications are subject to change without notice.

## SPEAKER SYSTEM

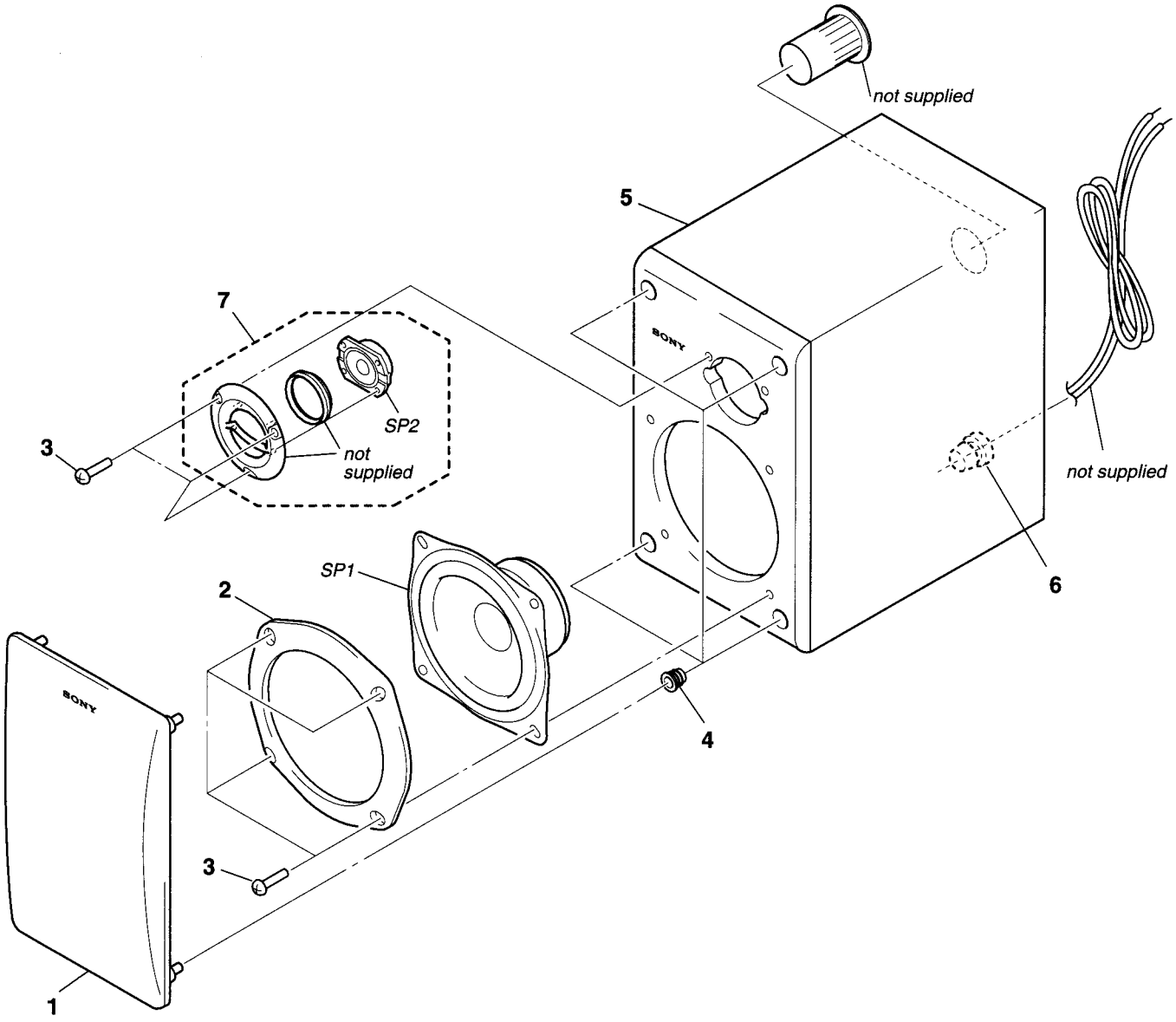
SONY®

## EXPLODED VIEW AND PARTS LIST

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

**R-CH**




| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | X-4952-727-1 | NET ASSY, SPEAKER | | 5 | 4-217-366-01 | BOX(R), SPEAKER (R-CH) | |
| 2 | 4-217-353-01 | PANEL(WOOFER) | | 6 | 4-870-003-00 | CLIPPER, CODE | |
| 3 | 4-874-614-11 | SCREW(4) (3.5X14), TAPPING | | 7 | A-4412-189-A | PANEL ASSY, TWEETER | |
| 4 | 4-218-202-01 | CATCHER, NET | | SP1 | 1-529-727-11 | SPEAKER (12cm) (WOOFER) | |
| 5 | 4-217-365-01 | BOX(L), SPEAKER (L-CH) | | SP2 | 1-529-476-11 | SPEAKER (2.5cm) (TWEETER) | |




**Sony Corporation**
**Home Audio Division Company**

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**Published by Quality Assurance Dept.**

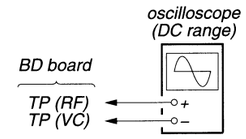
## 2. CD MECHANISM DECK (CDM55D-K5BD41) ADDITION ELECTRICAL ADJUSTMENT

**CD SECTION**

**Note:**

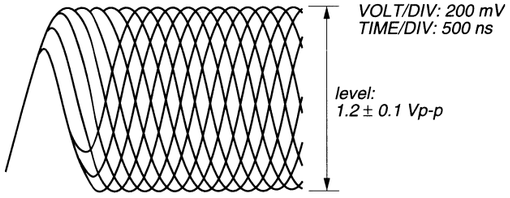
1. CD Block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Check the focus bias check when optical pick-up block is replaced.

**Focus Bias Check**



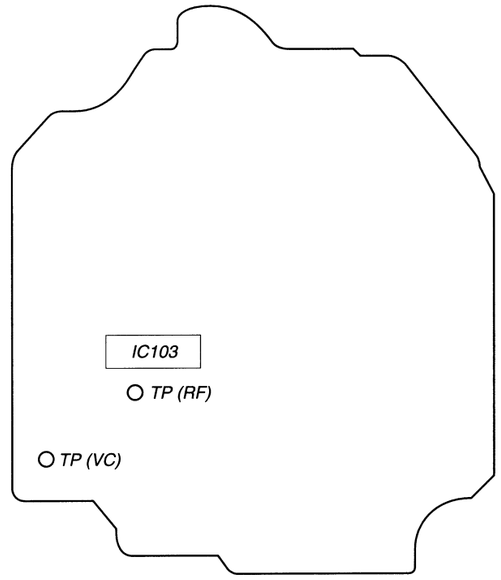

**Procedure :**

1. Connect oscilloscope to TP (RF) and TP (VC) on the CD board.
2. Press the I/⏻ button to turn the power on, and press the ⏏ (CD) button to open the CD disc tray.
3. Put disc (YEDS-18) in and press the ▶II (CD) button to playback.
4. Confirm that oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.



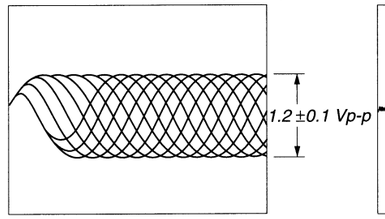

**Checking Location:**

**– CD BOARD (Conductor Side) –**

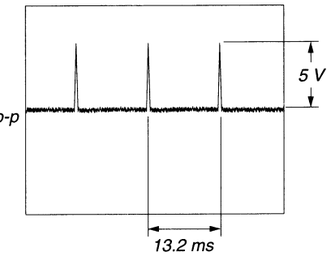



• **Waveforms**
**– CD Board –**

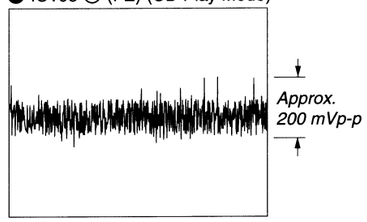
❶ IC103 ⑯ (RFO) (CD Play Mode)



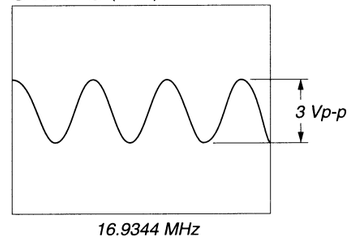

❻ IC101 ⑳ (SCOR) (CD Play Mode)



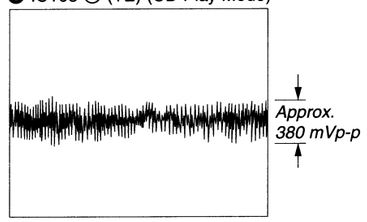

❷ IC103 ⑭ (FE) (CD Play Mode)



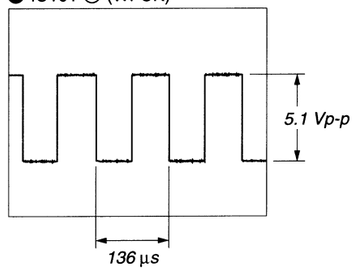

❼ IC101 ㊽ (XTAI)



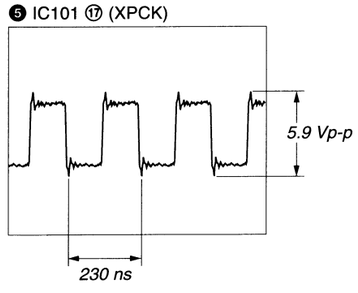

❸ IC103 ⑬ (TE) (CD Play Mode)




❹ IC101 ⑮ (WFCK)



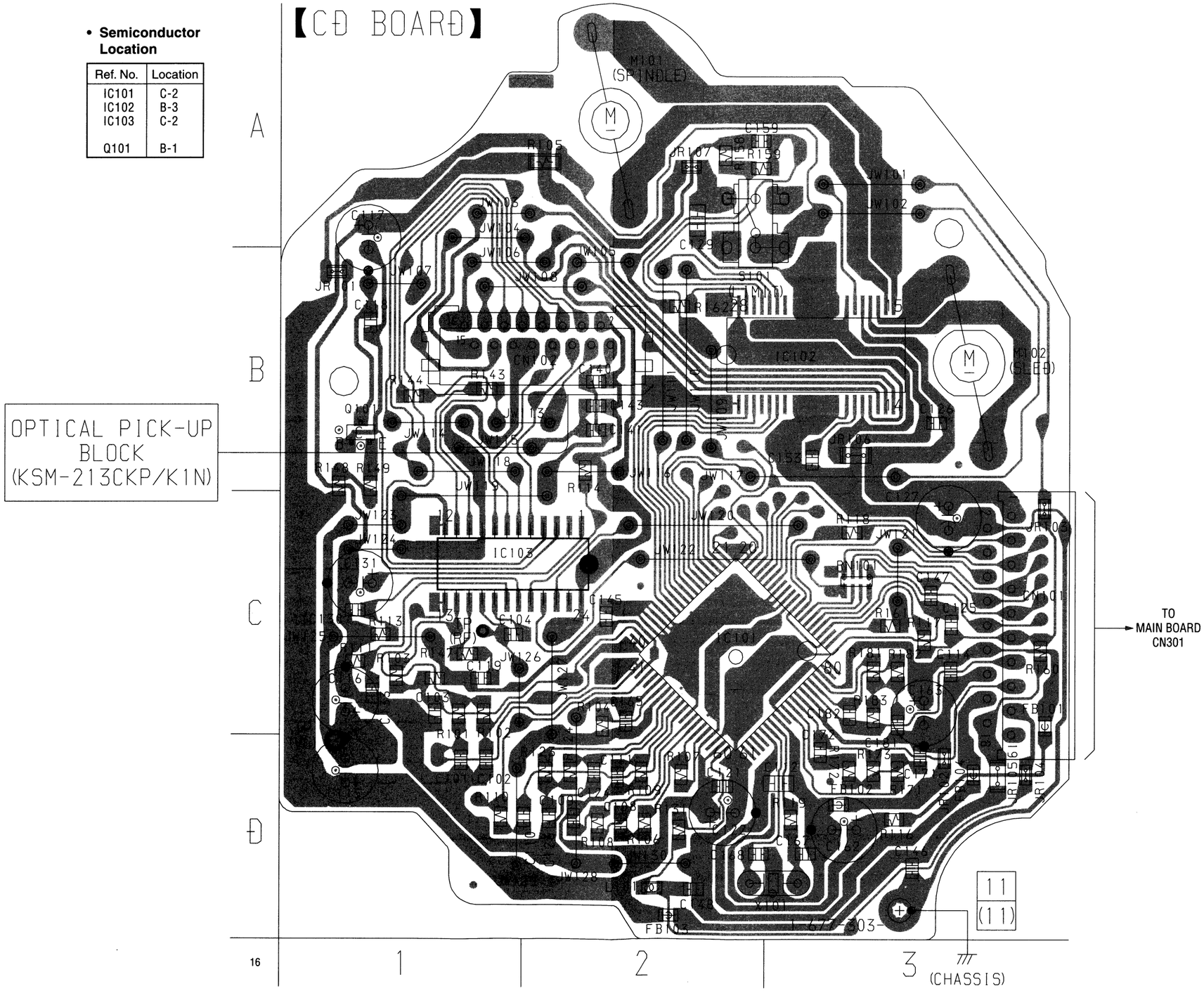

❺ IC101 ⑰ (XPCK)



## PRINTED WIRING BOARD – CD Board –

• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| IC101 | C-2 |
| IC102 | B-3 |
| IC103 | C-2 |
| Q101 | B-1 |



# HCD-CP11

SONY

# SERVICE MANUAL

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*
*Australian Model*

# SUPPLEMENT-1

**File this supplement with the service manual.**

**Subject: PARTS CHANGE**

## PARTS CHANGE

The others are common parts so that please refer to the previous issued service manual.

| Page | INCORRECT | | | CORRECT | | |
|---|---|---|---|---|---|---|
| | Ref. No. | Part No. | Description | Ref. No. | Part No. | Description |
| 30 | 1 | 1-772-001-11 | DECK, MECHANICAL (TAPE DECK BLOCK) | 1 | 1-772-623-11 | DECK, MECHANICAL (TAPE DECK BLOCK) |

(ENG-00002)

9-929-095-81

Sony Corporation
Audio Entertainment Group

2000F001672-1
Printed in Japan ©2000.6
Published by HA Quality Assurance Dept.

# HCD-CP11

SONY

# SERVICE MANUAL

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*
*Australian Model*

## SUPPLEMENT-2

**File this supplement with the Service Manual.**

| | |
|---|---|
| **Subject:** | **1. COLOR VARIATION (GOLD MODEL) AEP MODEL ONLY ADDITION**<br>**2. CD MECHANISM DECK (CDM55D-K5BD41) ADDITION**<br>**3. CORRECTION** |

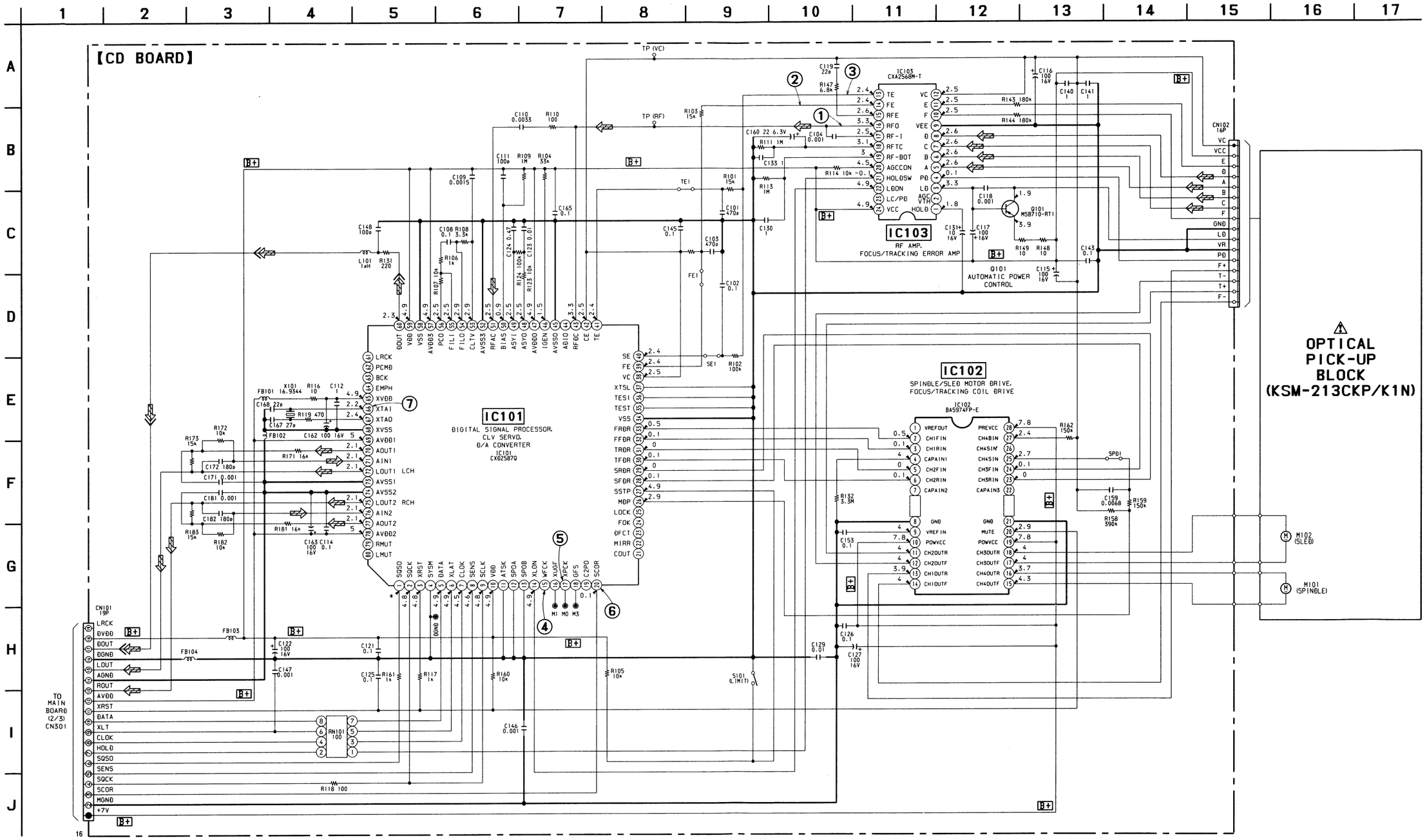
(SPM-00014)

## 1. COLOR VARIATION (GOLD MODEL) AEP MODEL ONLY ADDITION

The others are common parts so that please refer to the previous issued service manual.

| PAGE | Former | | | | New | | |
|---|---|---|---|---|---|---|---|
| | Ref. No. | Part No. | Description | Remarks | Part No. | Description | Remark |
| 30 | 2 | 4-217-341-21 | COVER(UPPER) | | 4-217-341-21 | COVER(UPPER) (SILVER) | |
| | | ——— | ——— | | 4-217-341-31 | COVER(UPPER) (GOLD) | |
| 31 | 52 | X-4952-728-1 | PANEL SUB ASSY, FRONT (AEP,AED,CIS,UK) | | X-4952-728-1 | PANEL SUB ASSY, FRONT (SILVER) | |
| | | ——— | ——— | | X-4953-299-1 | PANEL SUB ASSY, FRONT (GOLD) | |
| | 53 | 4-227-956-01 | WINDOW (CASSETTE) | | 4-227-956-01 | WINDOW (CASSETTE) (SILVER) | |
| | | ——— | ——— | | 4-222-321-01 | WINDOW (CASSETTE) (GOLD) | |
| | 55 | 4-217-316-01 | LID,CASSETTE | | 4-217-316-01 | LID,CASSETTE (SILVER) | |
| | | ——— | ——— | | 4-217-316-11 | LID,CASSETTE (GOLD) | |
| | 63 | X-4951-107-1 | LOCK(EJECT) ASSY | | X-4951-107-1 | LOCK(EJECT) ASSY (SILVER) | |
| | | ——— | ——— | | X-4951-937-1 | LOCK(EJECT) ASSY (GOLD) | |
| | 69 | 4-227-282-01 | KNOB(BASS) | | 4-227-282-01 | KNOB(BASS) (SILVER) | |
| | | ——— | ——— | | 4-227-282-11 | KNOB(BASS) (GOLD) | |
| 32 | 101 | 4-227-281-01 | LID(CD) | | 4-227-281-01 | LID(CD) (SILVER) | |
| | | ——— | ——— | | 4-231-406-01 | LID(CD) (GOLD) | |
| | 107 | 4-227-293-01 | PANEL, BACK (AEP,AED,CIS,UK) | | 4-227-293-01 | PANEL, BACK (SILVER) | |
| | | ——— | ——— | | 4-231-405-01 | PANEL, BACK (GOLD) | |

**SCHEMATIC DIAGRAM – CD Section –** • See page 3 for Waveforms. • See page 6 for IC Block Diagrams.

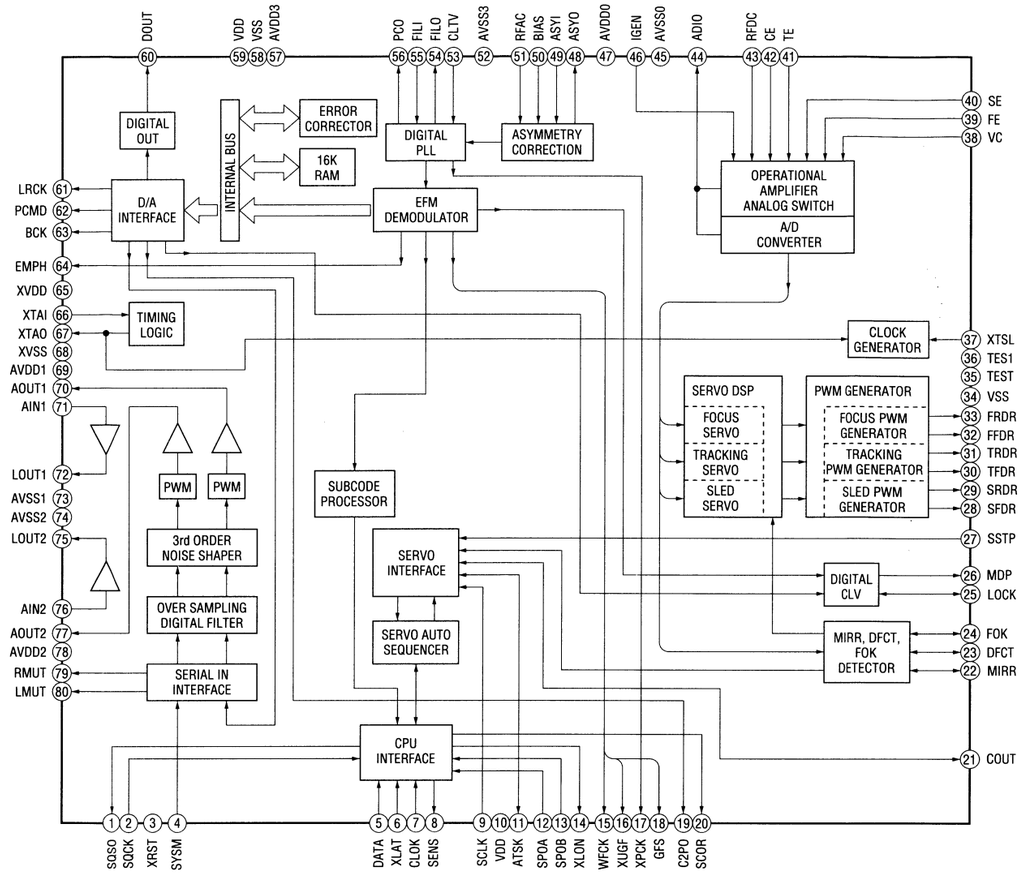



- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD PLAY
  * : Impossible to measure

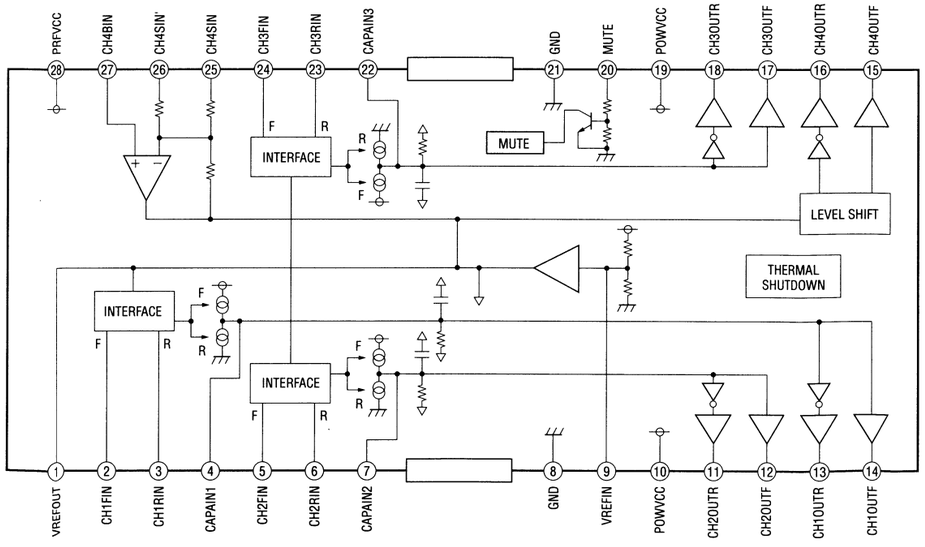
| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

• IC Block Diagrams
– CD Board –

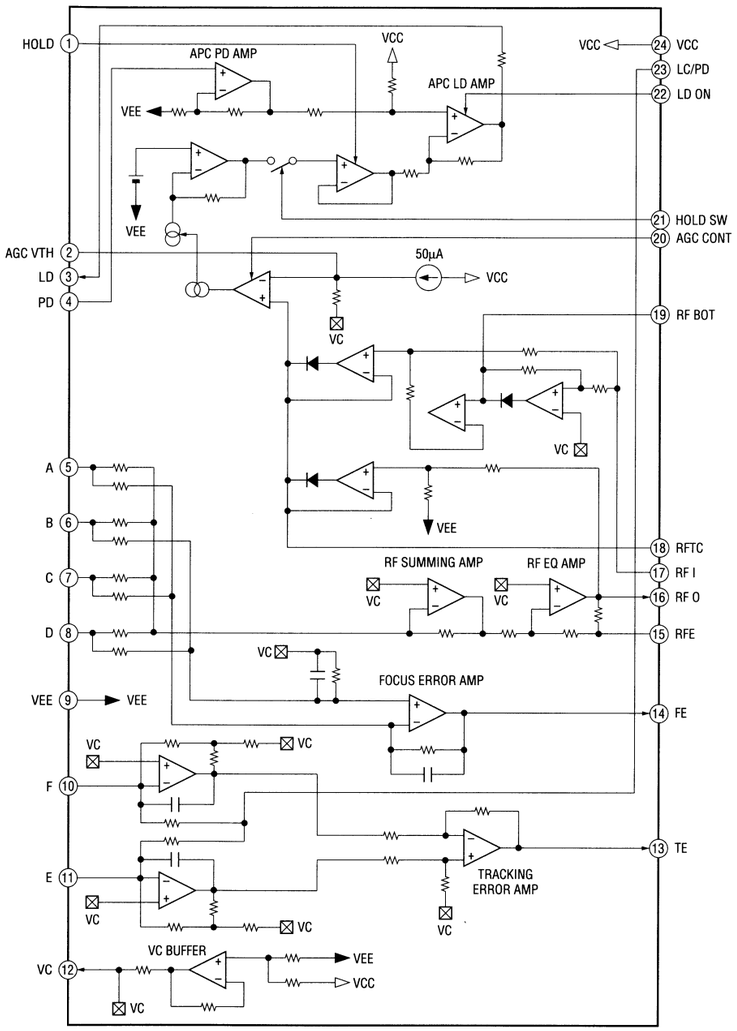
### IC101 CXD2587Q



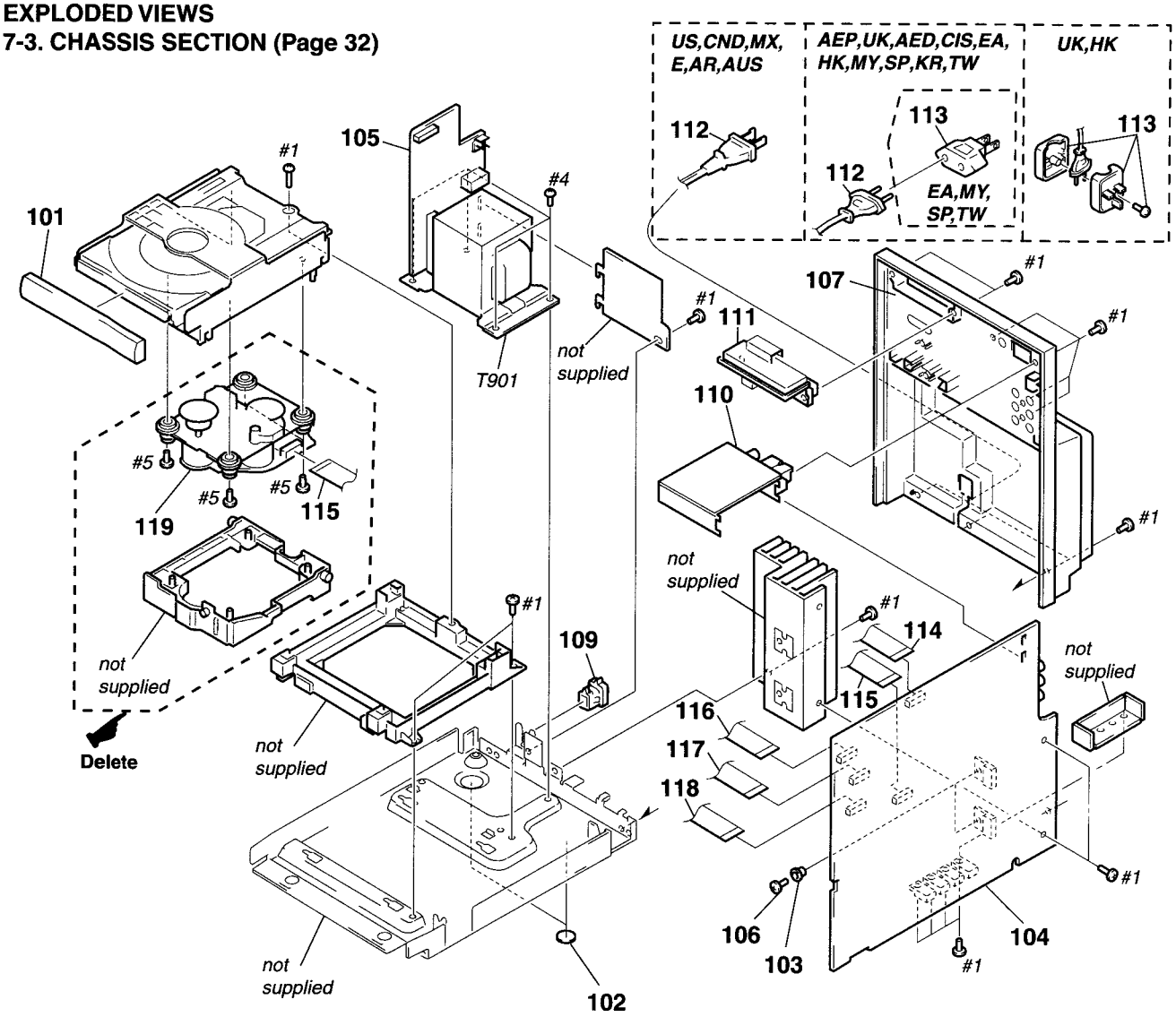

### IC102 BA5974FP-E2




### IC103 CXA2568M-T6



## EXPLODED VIEWS
## 7-3. CHASSIS SECTION (Page 32)

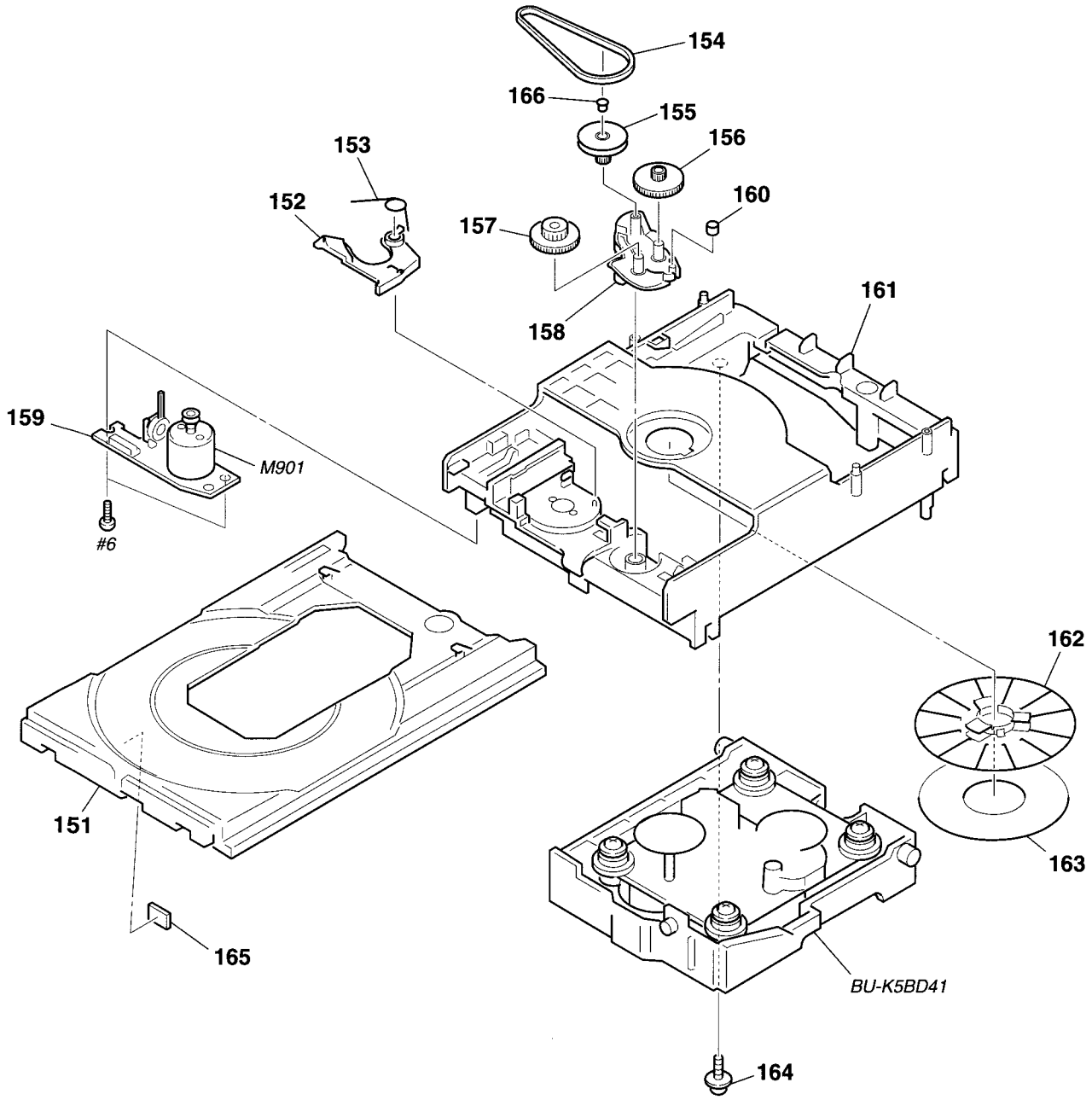



| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 101 | 4-227-281-01 | LID(CD) | |
| 102 | 4-217-355-01 | FOOT | |
| * 103 | 4-217-354-01 | BUSHING, INSULATING | |
| 104 | A-4428-920-A | MAIN BOARD, COMPLETE (AEP,AED,CIS,UK) | |
| 104 | A-4473-503-A | MAIN BOARD, COMPLETE (MX) | |
| 104 | A-4473-505-A | MAIN BOARD, COMPLETE (US,CND) | |
| 104 | A-4473-507-A | MAIN BOARD, COMPLETE (EA,HK,MY,SP,TW) | |
| 104 | A-4473-512-A | MAIN BOARD, COMPLETE (AUS) | |
| 104 | A-4473-513-A | MAIN BOARD, COMPLETE (E,AR) | |
| 104 | A-4473-652-A | MAIN BOARD, COMPLETE (KR) | |
| 105 | 1-677-145-11 | POWER BOARD (AEP,AED,CIS,UK,AUS) | |
| 105 | 1-677-145-21 | POWER BOARD (E,EA,AR,HK,MY,SP,TW) | |
| 105 | 1-677-145-31 | POWER BOARD (US,CND,MX) | |
| 105 | 1-677-145-41 | POWER BOARD (KR) | |
| 106 | 4-931-757-31 | SCREW(DIA.2.6X8)(IT3B),TAPPING | |
| 107 | 4-227-293-01 | PANEL, BACK (AEP,AED,CIS,UK) | |
| 107 | 4-227-293-11 | PANEL, BACK (US,CND,MX,KR) | |
| 107 | 4-227-293-21 | PANEL, BACK (E,EA,AR,HK,MY,SP,TW) | |
| 107 | 4-227-293-41 | PANEL, BACK (AUS) | |
| 109 | 4-217-350-01 | STOPPER, CORD (US,CND,MX,E,EA,AR,MY,SP,KR,AUS) | |
| 109 | 4-217-350-11 | STOPPER, CORD (AEP,AED,CIS,UK,HK,TW) | |
| 110 | A-4303-600-A | TUNER BLOCK (AED,CIS,AUS) | |
| 110 | A-4303-604-A | TUNER BLOCK (MX,E,EA,AR,HK,MY,SP,KR,TW) | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 110 | A-4303-605-A | TUNER BLOCK(US,CND) | |
| 110 | A-4303-600-A | TUNER BLOCK(AEP,UK) | |
| 111 | 1-677-146-11 | SPEAKER BOARD | |
| ⚠112 | 1-696-169-11 | CORD, POWER (AEP,AED,CIS,UK,EA,HK,MY,SP,TW) | |
| ⚠112 | 1-696-848-41 | CORD, POWER (AUS) | |
| ⚠112 | 1-769-079-21 | CORD, POWER (KR) | |
| ⚠112 | 1-775-789-91 | CORD, POWER (MX,E) | |
| ⚠112 | 1-783-820-11 | CORD, POWER (US,CND) | |
| ⚠112 | 1-783-941-21 | CORD, POWER (AR) | |
| ⚠113 | 1-770-019-11 | ADAPTOR, CONVERSION PLUG 3P (UK,HK) | |
| ⚠113 | 1-569-008-21 | ADAPTOR, CONVERSION PLUG 2P (EA,MY,SP,TW) | |
| 114 | 1-792-409-11 | WIRE (FLAT TYPE) 21CORE | |
| 115 | 1-792-411-11 | WIRE (FLAT TYPE) 19CORE | |
| 116 | 1-792-412-11 | WIRE (FLATTYPE) 20CORE | |
| 117 | 1-172-413-11 | WIRE (FLATTYPE) 18CORE | |
| 118 | 1-792-410-11 | WIRE (FLAT TYPE) 23CORE | Delete |
| 119 | A-4677-289-A | CD BLOCK | |
| ⚠T901 | 1-435-101-11 | TRANSFORMER, POWER (E,EA,AR,HK,MY,SP,TW) | |
| ⚠T901 | 1-435-385-11 | TRANSFORMER, POWER (US,CND,MX) | |
| ⚠T901 | 1-435-386-11 | TRANSFORMER, POWER (AEP,AED,CIS,UK,AUS,KR) | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

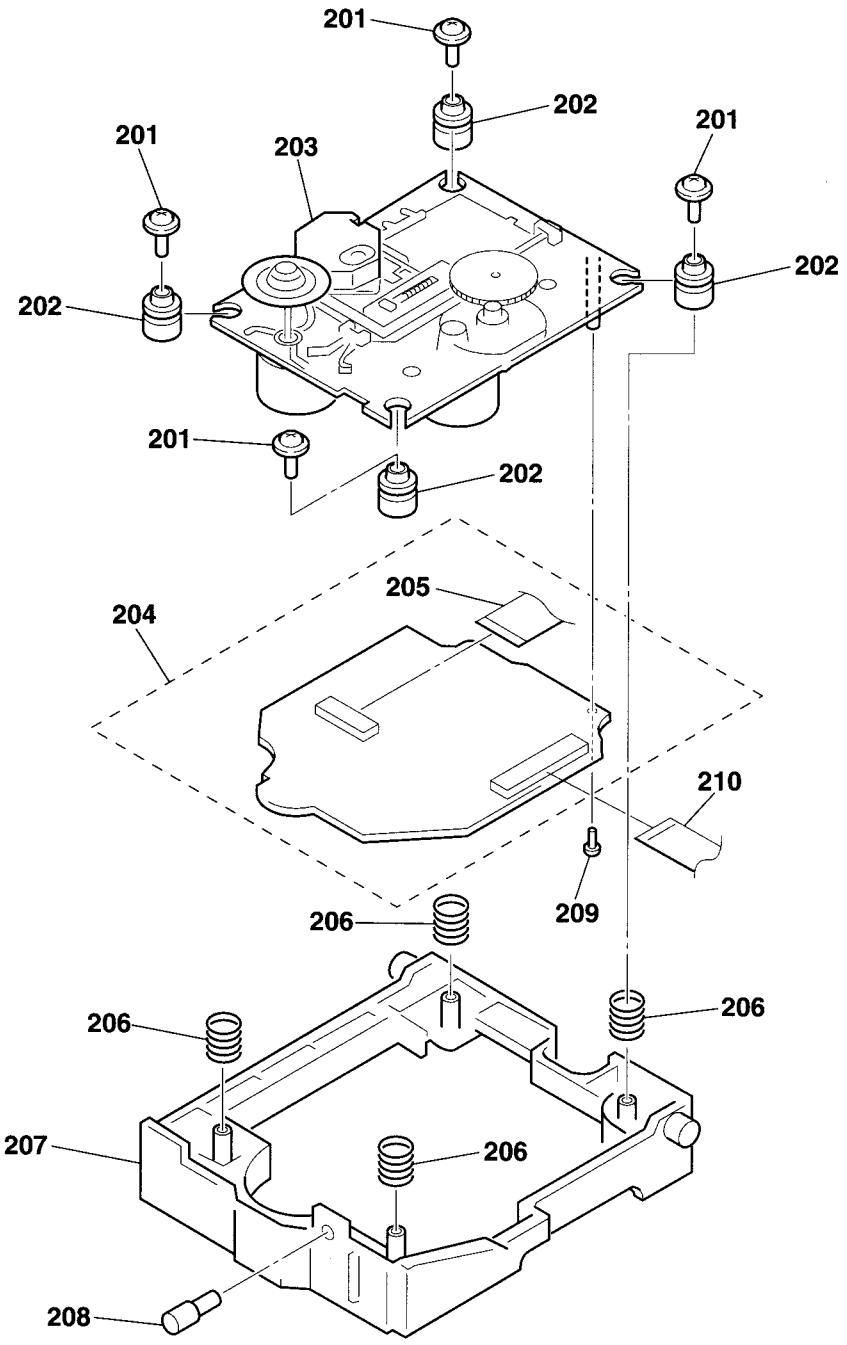
## 7-4. CD MECHANISM DECK SECTION (Page 33)
## (CDM55D-K5BD41)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | 4-224-894-01 | TRAY | |
| 152 | 4-220-229-01 | LEVER (SW) | |
| 153 | 4-220-239-01 | SPRING, TORSION | |
| 154 | 4-221-816-01 | BELT (CDM55) | |
| 155 | 4-220-234-01 | PULLEY (LDG) | |
| 156 | 4-220-237-01 | GEAR (A) | |
| 157 | 4-220-238-01 | GEAR (B) | |
| 158 | 4-220-233-01 | CAM (CDM55) | |
| 159 | 1-676-599-11 | LOADING BOARD | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 160 | 4-221-815-01 | ROLLER | |
| 161 | 4-225-884-01 | CHASSIS (55D) | |
| 162 | X-4952-811-1 | PULLEY (AT) ASSY | |
| 163 | 4-220-951-02 | SHEET (KH) | |
| 164 | 4-985-672-01 | SCREW (+PTPWHM2.6), FLOATING | |
| 165 | 4-925-315-31 | DAMPER | |
| 166 | 4-227-598-01 | SPACER (55) | |
| M901 | A-4672-891-A | MOTOR (LD) ASSY (LOADING) | |

## BASE UNIT SECTION (NEW)
## (BU-K5BD41)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 201 | 4-985-672-01 | SCREW (+PTPWHM2.6), FLOATING | |
| 202 | 4-229-005-01 | INSULATOR | |
| ⚠203 | 8-848-483-05 | OPTICAL PICK-UP KSM-213CKP/K1N | |
| 204 | A-4725-097-A | CD BOARD, COMPLETE | |
| 205 | 1-791-495-11 | WIRE, PARALLEL (FFC) (16 CORE) | |
| 206 | 4-229-004-01 | SPRING, COMPRESSION | |
| 207 | 4-227-251-01 | HOLDER (KSM) | |
| 208 | 4-221-817-02 | SHAFT (BU) | |
| 209 | 7-621-255-32 | SCREW +P 2X5 | |
| 210 | 1-792-411-11 | WIRE (FLAT TYPE) 19 CORE | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

**CD**

## ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: μF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA... , uPA... , μPA... ,
  uPB... , μPB... , uPC... , μPC... ,
  uPD..., μPD...

When indicating parts by reference number, please include the board name.

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| | A-4725-097-A | CD BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 1-791-495-11 | WIRE, PARALLEL (FFC) (16 CORE) | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C102 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C103 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C104 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C108 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C109 | 1-163-011-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V |
| C110 | 1-164-182-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C111 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C112 | 1-107-682-11 | CERAMIC CHIP | 1uF | 10% | 16V |
| C114 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C115 | 1-126-382-11 | ELECT | 100uF | 20% | 16V |
| C116 | 1-126-382-11 | ELECT | 100uF | 20% | 16V |
| C117 | 1-126-382-11 | ELECT | 100uF | 20% | 16V |
| C118 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C119 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C121 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C122 | 1-126-382-11 | ELECT | 100uF | 20% | 16V |
| C123 | 1-163-021-11 | CERAMIC CHIP | 0.01uF | 10% | 50V |
| C124 | 1-107-823-11 | CERAMIC CHIP | 0.47uF | 10% | 16V |
| C125 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C126 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C127 | 1-126-382-11 | ELECT | 100uF | 20% | 16V |
| C129 | 1-163-059-00 | CERAMIC CHIP | 0.01uF | 10% | 50V |
| C130 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C131 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C133 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C140 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C141 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C143 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C145 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C146 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C147 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C148 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C153 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C159 | 1-163-019-00 | CERAMIC CHIP | 0.0068uF | 10% | 50V |
| C160 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C162 | 1-126-382-11 | ELECT | 100uF | 20% | 16V |
| C163 | 1-126-382-11 | ELECT | 100uF | 20% | 16V |
| C165 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C167 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C168 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C171 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C172 | 1-163-123-00 | CERAMIC CHIP | 180PF | 5% | 50V |
| C181 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C182 | 1-163-123-00 | CERAMIC CHIP | 180PF | 5% | 50V |
| | | < CONNECTOR > | | | |
| CN101 | 1-691-078-41 | HOUSING, CONNECTOR 19P | | | |
| CN102 | 1-785-953-11 | CONNECTOR, FFC/FPC | | | |
| | | < FERRITE BEAD > | | | |
| FB101 | 1-469-144-21 | FERRITE | 0uH | | |
| FB102 | 1-469-144-21 | FERRITE | 0uH | | |
| FB103 | 1-469-144-21 | FERRITE | 0uH | | |
| FB104 | 1-469-144-21 | FERRITE | 0uH | | |
| | | < IC > | | | |
| IC101 | 8-752-386-85 | IC CXD2587Q | | | |
| IC102 | 8-759-549-28 | IC BA5974FP-E2 | | | |
| IC103 | 8-752-085-51 | IC CXA2568M-T6 | | | |
| | | < SHORT > | | | |
| JR101 | 1-216-295-00 | SHORT | 0 | | |
| JR102 | 1-216-295-00 | SHORT | 0 | | |
| JR103 | 1-216-295-00 | SHORT | 0 | | |
| JR104 | 1-216-295-00 | SHORT | 0 | | |
| JR105 | 1-216-296-00 | SHORT | 0 | | |
| JR106 | 1-216-296-00 | SHORT | 0 | | |
| JR107 | 1-216-295-00 | SHORT | 0 | | |
| | | < COIL > | | | |
| L101 | 1-410-993-11 | INDUCTOR CHIP | 1uH | | |
| | | < TRANSISTOR > | | | |
| Q101 | 8-729-010-08 | TRANSISTOR | MSB710-R | | |
| | | < RESISTOR > | | | |
| R101 | 1-216-077-00 | RES-CHIP | 15K | 5% | 1/10W |
| R102 | 1-216-097-00 | RES-CHIP | 100K | 5% | 1/10W |
| R103 | 1-216-077-00 | RES-CHIP | 15K | 5% | 1/10W |
| R104 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R105 | 1-216-222-00 | RES-CHIP | 10K | 5% | 1/8W |
| R106 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R107 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R108 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R109 | 1-216-121-00 | RES-CHIP | 1M | 5% | 1/10W |
| R110 | 1-216-025-00 | RES-CHIP | 100 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R111 | 1-216-121-00 | RES-CHIP | 1M | 5% | 1/10W |
| R113 | 1-216-121-00 | RES-CHIP | 1M | 5% | 1/10W |
| R114 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R116 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R117 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R118 | 1-216-025-00 | RES-CHIP | 100 | 5% | 1/10W |
| R119 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R123 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R124 | 1-216-097-00 | RES-CHIP | 100K | 5% | 1/10W |
| R131 | 1-216-025-00 | RES-CHIP | 100 | 5% | 1/10W |
| R132 | 1-216-133-00 | METAL CHIP | 3.3M | 5% | 1/10W |
| R143 | 1-216-103-00 | METAL CHIP | 180K | 5% | 1/10W |
| R144 | 1-216-103-00 | METAL CHIP | 180K | 5% | 1/10W |
| R147 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R148 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R149 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R158 | 1-216-111-00 | METAL CHIP | 390K | 5% | 1/10W |
| R159 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W |
| R160 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R161 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R162 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W |
| R171 | 1-216-078-00 | RES-CHIP | 16K | 5% | 1/10W |
| R172 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R173 | 1-216-077-00 | RES-CHIP | 15K | 5% | 1/10W |
| R181 | 1-216-078-00 | RES-CHIP | 16K | 5% | 1/10W |
| R182 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R183 | 1-216-077-00 | RES-CHIP | 15K | 5% | 1/10W |
| | | < NETWORK RESISTOR > | | | |
| RN101 | 1-233-576-11 | RES, CHIP NETWORK 100 | | | |
| | | < SWITCH > | | | |
| S101 | 1-771-853-11 | SWITCH, DETECTION (LIMIT) | | | |
| | | < VIBRATOR > | | | |
| X101 | 1-781-776-21 | VIBRATOR, CRYSTAL (16.9344MHz) | | | |

**********

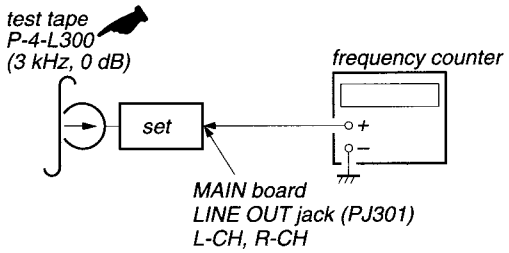
## 3. CORRECTION (Page 13)

☛ : indicates corrected portion.

**Playback level Confirmation and Adjustment**

**Procedure:**

Mode: Playback




Confirm playback level is within specification values as follows. If these levels are out of specification values, adjust the RV151 (L-CH) and RV251 (R-CH) on the MAIN board so that the level meter reading become within specification values.

**Specification values:**

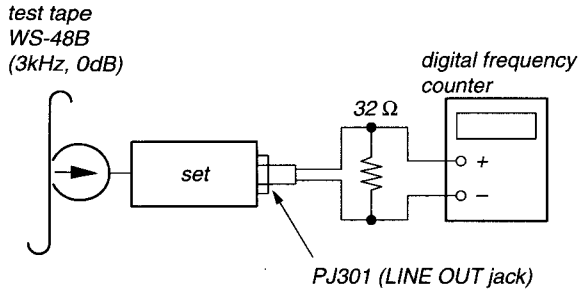
PJ301 PB level: 301.5 to 338.3 mV (–8.2 to –7.2 dB) level difference between the channels: within ±0.5 dB

**Adjustment Location:** MAIN board

**Tape Speed Adjustment**

**Procedure :**

Mode : Playback




☛ Added

**Adjustment Value :**

Adjust the tape speed adjustment control inside motor, so that the frequency counter reading becomes 3,000 Hz ± 90 Hz.

**Adjustment Location :**

Loading motor in mechanism deck (TAPE DECK BLOCK)



Sony Corporation
Audio Entertainment Group

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